

SAFETY DATA SHEET

Revision date 2022-Aug-10

Revision number 3.06

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name BISOMER[®] DALP
Product code 742145
Synonyms Diallyl phthalate
REACH registration number 01-2119832891-34-0000

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

Recommended use [RU] Monomer for special polymers
Uses advised against None known

1.3 Details of the supplier of the safety data sheet

Supplier
GEO Specialty Chemicals UK Ltd
Charleston Road, Hardley, Hythe
Southampton, Hampshire SO45 3ZG
United Kingdom
Phone: +44 (0)23 80894666
Fax No: +44 (0)23 80243113

Responsibility Statement For further information, please contact safety-data-sheet-fp@geosc.com

1.4 Emergency telephone number

Emergency telephone 24 Hour Emergency Phone Number
GEO Specialty Chemicals UK Ltd
+44 (0)23 80891806

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute oral toxicity	Category 4
Acute inhalation toxicity	Category 4
Skin sensitization	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

2.2 Label elements

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



Signal word WARNING

Hazard statements

H332 - Harmful if inhaled
 H317 - May cause an allergic skin reaction
 H302 - Harmful if swallowed
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P280 - Wear protective gloves
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 P273 - Avoid release to the environment
 P501 - Dispose of contents/container to industrial incineration plant

Hazard components for labeling • Diallyl phthalate

2.3 Other Information

None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component	EU EINECS	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	(REACH) Regulation (EC 1907/2006)
Diallyl phthalate 131-17-9	205-016-3	>= 99%	Acute Tox. 4 (H332) Acute Tox. 4 (H302) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Registration Number 01-2119832891-34-0000

For the full text of the H-Statements mentioned in this Section, see Section 16.

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

In case of adverse health effects seek medical advice.

Eye contact

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Skin contact

Rinse with running water and soap.

Ingestion

Rinse mouth with water, then drink one or two glasses of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If vomiting should occur spontaneously, keep airway clear. Seek medical advice immediately.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

No information available.

4.3 Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media**Suitable extinguishing media**

Water spray jet, Alcohol-resistant foam, Extinguishing powder, Carbon dioxide.

Extinguishing media which must not be used for safety reasons

High pressure waterjet.

5.2 Special hazards arising from the substance or mixture**Special Hazard**

Formation of toxic gases is possible during heating or in fires.

Hazardous combustion products

Carbon oxides. Aldehydes. Toxic vapors. Irritating vapors.

5.3 Advice for firefighters**Special protective equipment for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Firefighting measures

Cool exposed containers with water spray after extinguishing fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions**

Wear suitable protective clothing and gloves.

6.2 Environmental precautions**Environmental precautions**

Do not empty into drains/surface water/ground water. Inform authorities in the event of product spillage to water courses or sewage systems.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

6.4 Reference to other sections

See Section 12 for additional Ecological Information

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas

Avoid spraying/aerosol generation.

Ensure that eyewash stations and safety showers are close to the workstation location

Avoid contact with eyes, skin and clothing

Avoid breathing vapors or mists

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

Wash thoroughly after handling

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep only in the original container in a cool, well-ventilated place

Store in a dry place

Store at temperatures not exceeding 25 °C/ 77 °F

Do not store in direct sunlight.

7.3 Specific end use(s)

Specific use(s)

Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit value

Component	European Union	United Kingdom	Spain	Germany
Diallyl phthalate 131-17-9	NAV	TWA: 5 mg/m ³ STEL: 15 mg/m ³	NAV	NAV
Component	Ireland	France	Italy	Portugal
Diallyl phthalate 131-17-9	STEL: 15 mg/m ³ TWA: 5 mg/m ³	NAV	NAV	NAV
Component	Austria	Belgium	Switzerland	Poland
Diallyl phthalate 131-17-9	TWA: 5 mg/m ³	NAV	NAV	NAV
Component	Finland	Norway	Denmark	Netherlands
Diallyl phthalate 131-17-9	NAV	NAV	TWA: 3 mg/m ³	NAV

Biological limit values

Component	European Union	United Kingdom	Spain	Germany
Diallyl phthalate	NAV	NAV	NAV	NAV

131-17-9				
----------	--	--	--	--

Legend

NAV - Not available

8.2 Exposure controls**Personal Protective Equipment****Eye/face Protection**

Tight sealing safety goggles.

Hand Protection

Protective gloves made of: Nitrile rubber, Polyvinyl chloride (PVC).

Skin and body protection

Wear suitable protective equipment.

Respiratory protection

Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Filter A2 is recommended in cases of prolonged exposure.

Other personal protection data

Eyewash fountains and safety showers must be easily accessible.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	liquid
Color	colorless to yellowish
Appearance	clear
Odor	No information available
Odor threshold	No information available

Property	Values	Remarks
pH	No information available	No information available
Melting / freezing point	No information available	No information available
Boiling point / boiling range	290 °C / 554 °F @ 1013 hPa	ASTM D 1078-99
Flash point	166.0 °C / 330.8 °F	ASTM D 92-97
Evaporation rate	No information available	No information available
Flammability (solid, gas)	No information available	No information available
Flammability Limit in Air		
Upper flammability limit	No information available	No information available
Lower flammability limit	No information available	No information available
Vapor pressure	0.0213 Pa @ 25 °C	No information available
Vapor density	No information available	No information available

Specific gravity	No information available	No information available
Solubility (water)	148 mg/L @ 20 °C	No information available
Solubility in other solvents	No information available	No information available
Partition coefficient: n-octanol/water	3.23 log Pow	No information available
Autoignition temperature	No information available	No information available
Decomposition temperature	No information available	No information available
Kinematic viscosity	13.00 mm ² /s @ 20 °C	ASTM D 445-97
Dynamic viscosity	No information available	No information available
Density	1.12 g/cm ³ @ 20 °C	ASTM D 1298-99

9.2 Other information

Bulk Density	No information available
Explosive properties	Not applicable.
Oxidizing properties	Not applicable.
Softening point	No information available
Molecular weight	246 g/mol
Volatile Organic Compound (VOC) content, wt.%	Not a VOC
Percent Volatile, wt.%	Not a VOC

10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactivity

No information available.

10.2 Chemical stability

Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization

Not anticipated under normal or recommended handling and storage conditions.

10.4 Conditions to avoid

Conditions to avoid

Avoid: potential ignition sources, ultraviolet (UV), high pressure.

10.5 Incompatible materials

Materials to avoid

Reaction with oxidants. Reaction with strong acids.

10.6 Hazardous decomposition products

Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Aldehydes. Irritating vapors. Toxic fumes.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute health hazard

Eye contact

Slightly irritating.

Skin contact

May cause sensitization by skin contact. Slightly irritating.

Ingestion

Harmful if swallowed.

Inhalation

Harmful by inhalation.

Acute toxicity

Oral LD50

656 mg/kg (rat)

Dermal LD50

3300 mg/kg (rabbit)

Inhalation LC50

4470 mg/m³ (rat) – 4 hr LC100

Skin corrosion/irritation

No information available

Serious eye damage/eye irritation

Slightly irritating

Sensitization

May cause sensitization by skin contact

Germ cell mutagenicity

Not mutagenic

Carcinogenicity

Not suspected as a human carcinogen

Reproductive toxicity

No evidence of an effect on the reproductive organs

Specific target organ toxicity - Single exposure

Not classified

Specific target organ toxicity - Repeated exposure

Not classified

Aspiration hazard

No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity

Fish	LC50 (96hr) = 0.23 mg/l (<i>Onchorhynchus mykiss</i>)
Crustacea	EC50 (48 hr) = 5.5 mg/l (Daphnia)
Bacteria toxicity	EC0 > 10 - <= 100 mg/l. (Literature)
Algae/aquatic plants	EC50 (72 hr) = 3.8 mg/l (Algae)

12.2 Persistence and degradability

Persistence and degradability

No information available

Ultimate biodegradation

Inherently biodegradable.

12.3 Bioaccumulative potential

Bioaccumulative potential

Not expected to bioaccumulate (BCF < 200)

12.4 Mobility in soil

Mobility

Absorption is expected to be low (log K_{oc} = 2.63) indicating a tendency to move through soil easily.

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Other information

No other ecological studies have been carried out on this product.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of wastes

Waste incineration with the approval of the responsible local authority.

Contaminated packaging

Packaging that cannot be cleaned are to be disposed of in the same manner as the product. Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

US DOT

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phthalate)

14.3. Transport hazard class(es) 9

14.4. Packing group III

14.5. Environmental hazards Marine pollutant

14.6. Special precautions for user

ERG Number 171

Land transport (ADR/RID)

14.1. UN number

- 14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group
14.5. Environmental hazards Yes
14.6. Special precautions for user
ADR/RID-Labels 9
Classification code M6
Hazard identification number (Kemler No.) 90
Tunnel restriction code (E)

Air transport (ICAO-TI / IATA-DGR)

- 14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phthalate)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user
ERG Code 9L

Sea transport (IMDG)

- 14.1. UN number UN3082
14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diallyl phthalate)
14.3. Transport hazard class(es) 9
14.4. Packing group III
14.5. Environmental hazards Yes
14.6. Special precautions for user
EmS F-A; S-F

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

Not applicable

15. REGULATORY INFORMATION

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

Germany - Water Classification (VwVwS)
WGK 3

International Inventories

Australia (AICS)
All ingredients are on the inventory or exempt from listing

Canada (DSL)
All ingredients are on the inventory or exempt from listing

Canada (NDSL)
None of the ingredients are on the inventory.

China (IECSC)
All ingredients are on the inventory or exempt from listing

European Union (EINECS)
All ingredients are on the inventory or exempt from listing

European Union (ELINCS)
None of the ingredients are on the inventory.

Japan (ENCS)

All ingredients are on the inventory or exempt from listing

South Korea (KECL)

All ingredients are on the inventory or exempt from listing

Philippines (PICCS)

All ingredients are on the inventory or exempt from listing

United States (TSCA)

All ingredients are on the inventory or exempt from listing

Legend

AICS - Australian Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - China Inventory of Existing Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

15.2 Chemical Safety Report

No information available.

16. OTHER INFORMATION

Product code 742145

Revision date 2022-Aug-10

Full text of H-Statements referred to under sections 2 and 3

H332 - Harmful if inhaled

H317 - May cause an allergic skin reaction

H302 - Harmful if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Key or legend to abbreviations and acronyms used in the safety data sheet

NAV - Not available

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

Additional information

BISOMER® is a registered trademark of GEO Specialty Chemicals UK Ltd.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.