

Safety Data Sheet SND2730

Issue date: 23/06/2016 Revision date: 24/08/2021 Version: 1.2

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

#### 1.1. Product identifier

Product form : Substance
Physical state : Liquid

Substance name : DIALLYLDIBROMOTIN, tech-95

Product code : SND2730
Formula : C6H10Br2Sn

Synonyms : DIALLYLTINDIBROMIDE; DIPROPENYLDIBROMOSTANNANE; DIBROMODIALLYLTIN;

DIBROMODI-2-PROPEN-1-YLSTANNANE

Chemical family : ORGANOTIN

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

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

#### GELEST, INC.

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

#### **GELEST INC.**

Fritz-Klatte-Strasse 8 65933 Frankfurt

## Germany

T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM

info@gelestde.com - www.gelestde.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 3 H301
Acute toxicity (dermal), Category 3 H311
Acute toxicity (inhalation:vapour) Category 3 H331
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2

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

## Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

Hazard pictograms (CLP)



GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) : H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P261 - Avoid breathing vapours.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P301+P310 - IF SWALLOWED: Immediately call a doctor.

#### 2.3. Other hazards

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Substance type : Mono-constituent

Name : DIALLYLDIBROMOTIN, tech-95

CAS-No. : 17381-88-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diallyldibromotin	(CAS-No.) 17381-88-3	95 – 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16

## 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and ke

: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTER/doctor.

First-aid measures after skin contact : Wash with plenty of water/.... Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Immediately call a POISON

CENTER/doctor.

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

Symptoms/effects after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation. Organotins may be absorbed through the skin.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard

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

Note to physician: Application of corticosteroid creams has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

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## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Do not use straight streams.

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid all eye and skin contact and do not breathe vapour and mist.

## SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or

shovel spills into appropriate container for disposal.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapour and mist. Use only outdoors or in a

well-ventilated area

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store locked up. Store cold.

Incompatible materials : Bases. Direct sunlight. Reducing agents.

Storage area : Store in a well-ventilated place. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Diallyldibromotin (17381-88-3)

Italy - Portugal - USA ACGIH | ACGIH OEL TWA | 0.1 mg/m³ as tin

## 8.2. Exposure controls

#### Appropriate engineering controls:

Handle in an enclosing hood with exhaust ventilation.

## Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

#### Hand protection:

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Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. Contact lenses should not be worn

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid.

Molecular mass : 360.65 g/mol

Colour : Off-white to red-orange.

Odour : No data available

Odour threshold : No data available

Refractive index : 1.864

pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : No data available

Freezing point : < 0 °C

Boiling point : 77 – 79 °C @ 2 mm Hg

Flash point : > 110 °C

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : < 0.5 mm Hg @ 20°C

Relative vapour density at 20 °C : > 1
Relative density : 1.864

Insoluble in water. Solubility Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

#### 9.2. Other information

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Direct sunlight causes slow degradation to an inorganic tin salt. Non-hazardous Polymerization will occur if heated above 70°C.

## 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 10.5. Incompatible materials

Bases. Direct sunlight. Reducing agents.

## 10.6. Hazardous decomposition products

Hydrogen bromide. Organic acid vapors. Tin oxides.

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## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed or in contact with skin. Toxic in contact with skin or if inhaled. Toxic if

nhaled.

DIALLYLDIBROMOTIN, tech-95 (17381-88-3)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (vapours)	3 mg/l/4h
Diallyldibromotin (17381-88-3)	
ATE CLP (oral)	100 mg/kg bodyweight
ATE CLP (dermal)	300 mg/kg bodyweight
ATE CLP (gases)	700 ppmv/4h
ATE CLP (vapours)	3 mg/l/4h
ATE CLP (dust,mist)	0.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

Symptoms/effects after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Toxic in contact with skin. Causes skin irritation. Organotins may be absorbed through the skin.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Reason for classification : Expert judgment

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

: Not classified

## 12.2. Persistence and degradability

No additional information available

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other adverse effects : This substance may be hazardous to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to licensed waste disposal facility.

Ecology - waste materials : Avoid release to the environment.

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## **SECTION 14: Transport information**

## 14.1. UN number

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number

UN-No. (ADR) : 2788 UN-No. (IMDG) : 2788 UN-No. (IATA) : 2788 UN-No. (ADN) : 2788 UN-No. (RID) : 2788

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ORGANOTIN COMPOUND, LIQUID, N.O.S.
Proper Shipping Name (IMDG) : ORGANOTIN COMPOUND, LIQUID, N.O.S.

Proper Shipping Name (IATA) : Organotin compound, liquid, n.o.s.

Proper Shipping Name (ADN) : ORGANOTIN COMPOUND, LIQUID, N.O.S.

Proper Shipping Name (RID) : ORGANOTIN COMPOUND, LIQUID, N.O.S.

Transport document description (ADR) : UN 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (DIALLYLDIBROMOTIN), 6.1, III, (E)
Transport document description (IMDG) : UN 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (DIALLYLDIBROMOTIN), 6.1, III,

MARINE POLLUTANT

Transport document description (IATA) : UN 2788 Organotin compound, liquid, n.o.s. (DIALLYLDIBROMOTIN), 6.1, III

Transport document description (ADN) : UN 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (DIALLYLDIBROMOTIN), 6.1, III

Transport document description (RID) : UN 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (DIALLYLDIBROMOTIN), 6.1, III

## 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 6.1
Danger labels (ADR) : 6.1

: ||



#### **IMDG**

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1





## IATA

Transport hazard class(es) (IATA) : 6.1
Danger labels (IATA) : 6.1

:



## ADN

Transport hazard class(es) (ADN) : 6.1
Danger labels (ADN) : 6.1

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RID

Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1



**Packing group** 

Packing group (ADR) : 111 : III Packing group (IMDG) Packing group (IATA) : 111 : 111 Packing group (ADN) : 111 Packing group (RID)

**Environmental hazards** 

Dangerous for the environment : No

: Yes (IMDG only) Marine pollutant

Other information : No supplementary information available

#### 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) : T3 Special provisions (ADR) : 43, 274 Limited quantities (ADR) 51 Excepted quantities (ADR)

: P001, IBC03, LP01, R001 Packing instructions (ADR)

Mixed packing provisions (ADR) : MP19 Portable tank and bulk container instructions : T7

(ADR)

Portable tank and bulk container special : TP2, TP28

provisions (ADR)

: L4BH Tank code (ADR) Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT : 2 Transport category (ADR) Special provisions for carriage - Packages : V12

(ADR)

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation

: S9

Hazard identification number (Kemler No.)

: 60 Orange plates

60 2788

Tunnel restriction code (ADR) : E EAC code : 2X APP code : B

- Transport by sea

: 43, 223, 274 Special provisions (IMDG)

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Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P001, LP01 IBC packing instructions (IMDG) : IBC03 Tank instructions (IMDG) : T7 : TP2, TP28 Tank special provisions (IMDG) EmS-No. (Fire) : F-A : S-A EmS-No. (Spillage) Stowage category (IMDG) : A

Properties and observations (IMDG) : A wide variety of toxic liquids. Toxic if swallowed, by skin contact or by inhalation.

: SW2

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y642 PCA limited quantity max net quantity (IATA) : 2L PCA packing instructions (IATA) : 655 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 663 CAO max net quantity (IATA) : 220L Special provisions (IATA) : A3, A4, A6 ERG code (IATA) : 6L

- Inland waterway transport

Stowage and handling (IMDG)

Classification code (ADN) : T3

Special provisions (ADN) 43, 274, 802

Limited quantities (ADN) : 5 L Excepted quantities (ADN) : E1

Equipment required (ADN) PP, EP, TOX, A

Ventilation (ADN) VE02 Number of blue cones/lights (ADN) 0

- Rail transport

Classification code (RID) T3 Special provisions (RID) : 43, 274 Limited quantities (RID) : 51 Excepted quantities (RID)

Packing instructions (RID) : P001, IBC03, LP01, R001

: MP19 Mixed packing provisions (RID) Portable tank and bulk container instructions : T7

(RID)

Portable tank and bulk container special provisions (RID)

Tank codes for RID tanks (RID) : L4BH : TU15 Special provisions for RID tanks (RID) Transport category (RID) : 2 Special provisions for carriage - Packages : W12

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW13, CW28, CW31

: TP2, TP28

Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) : 60

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

## **SECTION 15: Regulatory information**

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

#### 15.1.1. **EU-Regulations**

#### No REACH Annex XVII restrictions

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DIALLYLDIBROMOTIN, tech-95 is not on the REACH Candidate List

DIALLYLDIBROMOTIN, tech-95 is not on the REACH Annex XIV List

DIALLYLDIBROMOTIN, tech-95 is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

DIALLYLDIBROMOTIN, tech-95 is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

#### Germany

Regulatory reference : Not classified according to Regulation Governing Systems for Handling Substances Hazardous

to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed SZW-lijst van mutagene stoffen : The substance is not listed SZW-lijst van reprotoxische stoffen - : The substance is not listed

Borstvoeding

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – : The substance is not listed

Ontwikkeling

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

## 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

## Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

#### Other information

: Prepared by safety and environmental affairs.

## Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

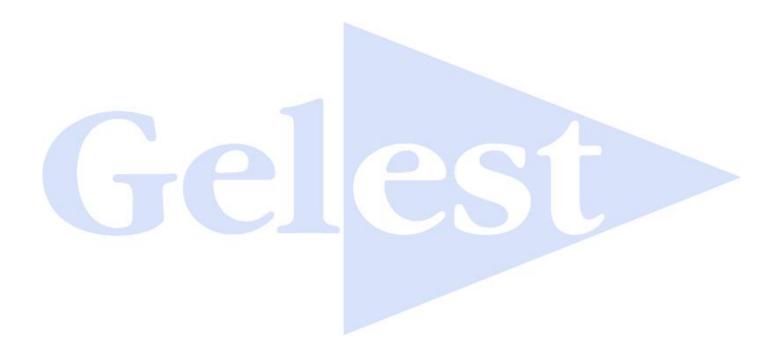
SDS EU (REACH Annex II) - Custom

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