# SAFETY DATA SHEET

### GHEMSERVIGE ....

### 1. Identification

Product identifier	Dibutyltin diacetate(Techr	nical)	
Other means of identification			
Item	N-11649		
CAS number	1067-33-0		
Synonyms	DIACETOXYDIBUTYLTIN		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380 United States		
Telephone	Toll Free	800-452-9994	
relephone	Direct	610-692-3026	
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-3887	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 2
	Skin corrosion/irritation		Category 1
	Serious eye damage/eye irr	itation	Category 1
	Sensitization, skin		Category 1
	Germ cell mutagenicity		Category 2
	Reproductive toxicity		Category 1B
	Specific target organ toxicity	, single exposure	Category 1
	Specific target organ toxicity exposure	/, repeated	Category 1
Environmental hazards	Hazardous to the aquatic er hazard	nvironment, acute	Category 1
	Hazardous to the aquatic er long-term hazard	nvironment,	Category 1

Not classified.

#### **OSHA** defined hazards

Label elements



Signal word Hazard statement

Fatal if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### 3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Dibutyltin diacetate(Technical)	DIACETOXYDIBUTYLTIN	1067-33-0	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if sympton	ns develop or persist.	
Skin contact	Remove contaminated clothing immediately a or poison control center immediately. Chemic contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Ca		
Ingestion	Call a physician or poison control center imm vomiting occurs, keep head low so that stom mouth-to-mouth method if victim ingested the a pocket mask equipped with a one-way valv	ach content doesn't get into the lu e substance. Induce artificial resp	ungs. Do not use iration with the aid o
Most important symptoms/effects, acute and delayed	Headache. Dizziness. Nausea, vomiting. Abo damage. Causes serious eye damage. Symp and blurred vision. Permanent eye damage in exposure may cause chronic effects.	otoms may include stinging, tearir	ng, redness, swelling
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre immediately. While flushing, remove clothes ambulance. Continue flushing during transpo observation. Symptoms may be delayed.	which do not adhere to affected a	area. Call an
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect the attendance. Wash contaminated clothing bef	medical personnel are aware of mselves. Show this safety data s	the material(s)
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Dry chemical powder. Carbon dio	xide (CO2). Alcohol resistant foar	n.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as the	nis will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	protective clothing must be worn i	n case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do apparatus for fire fighting if necessary.	so without risk.Wear self containe	ed breathing
Specific methods	Use standard firefighting procedures and cor	sider the hazards of other involve	ed materials.
General fire hazards	No unusual fire or explosion hazards noted.		

#### 6. Accidental release measures

0. Accidental release meas	Suies
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.Use personal protective equipment. Avoid breathing gas. Avoid breathing mist or vapor.
Methods and materials for containment and cleaning up	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Handle under inert gas.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed in a dry and well-ventilated place.Containers which are opened must be carefully resealed and kept upright to prevent leakage.Light sensitive.Moisture sensitive. Store under an inert atmosphere.

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Туре	Value	
Dibutyltin diacetate(Technical) (CAS 1067-33-0)	PEL	0.1 mg/m3	
US. ACGIH Threshold Limit	Values		
Material	Туре	Value	
Dibutyltin diacetate(Technical) (CAS 1067-33-0)	STEL	0.2 mg/m3	
	TWA	0.1 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
US. NIOSH: Pocket Guide to Material	o Chemical Hazards Type	Value	
		Value 0.1 mg/m3	
Material Dibutyltin diacetate(Technical) (CAS	Type TWA		
Material Dibutyltin diacetate(Technical) (CAS 1067-33-0)	Type TWA	0.1 mg/m3	
Material Dibutyltin diacetate(Technical) (CAS 1067-33-0) logical limit values	Type TWA No biological exposure limi	0.1 mg/m3	

US - Minnesota Haz Subs: S	kin designation applies	
Dibutyltin diacetate(Techr	, , , , , , , , , , , , , , , , , , , ,	Skin designation applies.
US - Tennessee OELs: Skin	•	
Dibutyltin diacetate(Techr		Can be absorbed through the skin.
US ACGIH Threshold Limit V	Values: Skin designation	
Dibutyltin diacetate(Techr		Can be absorbed through the skin.
US NIOSH Pocket Guide to (	Chemical Hazards: Skin desig	nation
Dibutyltin diacetate(Techr	nical) (CAS 1067-33-0)	Can be absorbed through the skin.
Appropriate engineering controls	should be matched to conditio or other engineering controls t exposure limits have not been	cally 10 air changes per hour) should be used. Ventilation rates ns. If applicable, use process enclosures, local exhaust ventilation, o maintain airborne levels below recommended exposure limits. If established, maintain airborne levels to an acceptable level. Eye shower must be available when handling this product.
Individual protection measures,	such as personal protective e	quipment
Eye/face protection	Chemical respirator with organ	nic vapor cartridge and full facepiece.
Skin protection		
Hand protection	Wear appropriate chemical rea	sistant gloves.
Other	Wear appropriate chemical res	sistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respirator with organ	nic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal prot	ective clothing, when necessary.
General hygiene considerations	good personal hygiene measu drinking, and/or smoking. Rou	nce requirements. Keep away from food and drink. Always observe ires, such as washing after handling the material and before eating, utinely wash work clothing and protective equipment to remove work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	44.6 - 50 °F (7 - 10 °C) lit.
Initial boiling point and boiling range	287.6 - 293 °F (142 - 145 °C) at 10mm Hg- lit.
Flash point	302.9 °F (150.5 °C) Pensky-Martens Closed Cup ISO 2719
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.0004 kPa at 25 °C
Vapor density	12.1
Relative density	1.32 g/ml at 25 °C
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	1.27
Auto-ignition temperature	Not available.
Material name: Dibutyltin diacetate(Te	chnical)

Material name: Dibutyltin diacetate(Technical) N-11649 Version #: 01 Issue date: 03-19-2018

Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Dynamic viscosity	18 mPa.s (77 °F (25 °C))
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C12H24O4Sn
Molecular weight	351.03 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	1.31 at 25 °C

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Exposure to light.
Incompatible materials	Chlorine. Strong oxidizing agents. Strong acids. Strong bases. Light. Moist air.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause damage to organs by inhalation. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Ingestion	Fatal if swallowed. Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Dizziness. Nausea, vomiting. Abdominal pain. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Coughing.

### Information on toxicological effects

Acute toxicity	Fatal if swallowed.		
Product	Species	Test Results	
Dibutyltin diacetate(Technical) (C	AS 1067-33-0)		
<u>Acute</u>			
Oral			
LD50	Rat	32 mg/kg	
* Estimates for product may I	pe based on additional component da	a not shown.	
Skin corrosion/irritation	Causes severe skin burns and eye	damage.	
Serious eye damage/eye irritation	Causes serious eye damage.		
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	May cause an allergic skin reaction	l.	
Germ cell mutagenicity	Suspected of causing genetic defe	cts.	
Carcinogenicity	Not classifiable as to carcinogenici	ty to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Not listed.			
OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-	1050)	
Not regulated.			
US. National Toxicology Pr	ogram (NTP) Report on Carcinoger	IS	
Not listed.			
Material name: Dibutyltin diacetate/T	inchnical)		

Reproductive toxicity	May damage fertility or the unborn child.
Specific target organ toxicity - single exposure	Causes damage to organs.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.
12 Ecological information	

#### 12. Ecological information

Very toxic to aquatic life with long lasting effects.

### Persistence and degradability

**Bioaccumulative potential** 

Ecotoxicity

#### Partition coefficient n-octanol / water (log Kow) 1.27 Mobility in soil No data available.

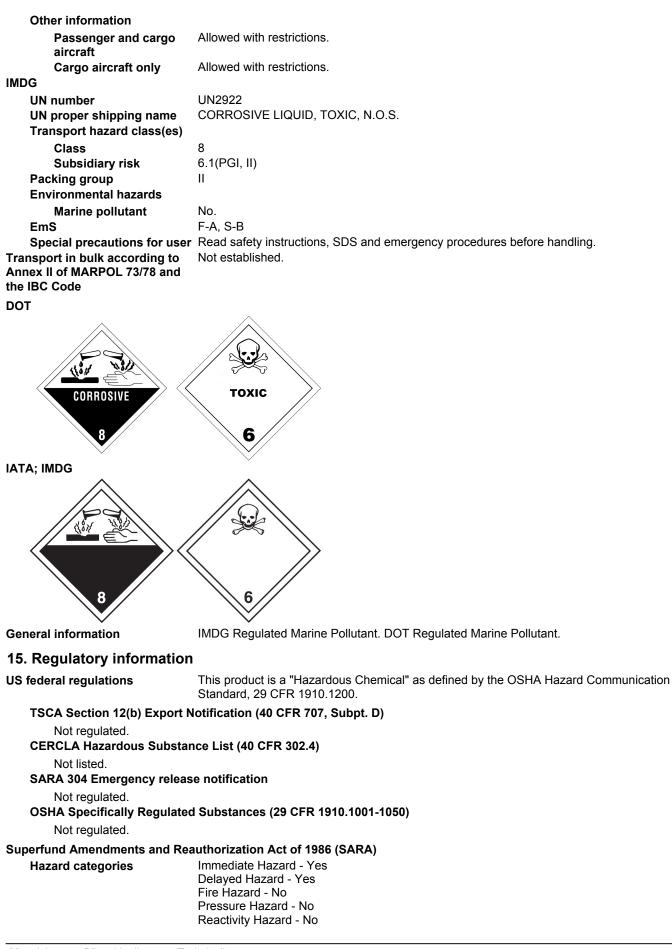
 Other adverse effects
 No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

DOT	
UN number	UN2922
UN proper shipping name	Corrosive liquids, toxic, n.o.s.
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1(PGI, II)
Label(s)	8, 6.1
Packing group	II
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	B3, IB2, T7, TP2
Packaging exceptions	154
Packaging non bulk	202
Packaging bulk	243
ΙΑΤΑ	
UN number	UN2922
UN proper shipping name	Corrosive liquid, toxic, n.o.s.
Transport hazard class(es)	
Class	8
Subsidiary risk	6.1(PGI, II)
Packing group	II
Environmental hazards	No.
ERG Code	8P
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.



#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting) Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act	Not regulated.
(SDWA)	

**US state regulations** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date Version # **NFPA** ratings

03-19-2018 01 Health: 4 Flammability: 0 Instability: 0

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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