

Safety Data Sheet SNB2000 Date of issue: 10/23/2015 Version: 1.0

SECTION 1: Identification of the su	ubstance/mixture and of the company/undertaking			
1.1. Product identifier	abstance/mixture and of the company/undertaking			
Product form	: Substance			
Physical state	: Liquid			
Substance name	: n-BUTYLTRICHLOROTIN			
Product code	: SNB2000			
Formula				
Synonyms	: BUTYLTINTRICHLORIDE; N-BUTYLTRICHLOROSTANNANE; MONOBUTYLTIN TRICHLORIDE; STANNANE, BUTYLTRICHLORO-			
Chemical family	: TIN COMPOUND			
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against			
Use of the substance/mixture	: Chemical intermediate For research and industrial use only			
1.3. Details of the supplier of the safe	ty data sheet			
GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA T 215-547-1015 - F 215-547-2484 - (M-F): 8:0 info@gelest.com 1.4. Emergency telephone number	00 AM - 5:30 PM EST			
0 7 1	· CHEMTREC: 1 200 424 0200 (LICA): 11 702 527 2887 (International)			
Emergency number	: CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)			
<b>SECTION 2: Hazards identification</b>				
2.1. Classification of the substance of				
GHS-US classification				
Eye Dam. 1 H318 STOT SE 3 H335 Aquatic Acute 1 H400 Full text of H-phrases: see section 16				
2.2. Label elements				
GHS-US labeling				
Hazard pictograms (GHS-US)				
Signal word (GHS-US) Hazard statements (GHS-US)	GHS05 GHS07 GHS09 : Danger : H314 - Causes severe skin burns and eye damage H314 - Causes severe skin burns and eye damage			
	H335 - May cause respiratory irritation H400 - Very toxic to aquatic life			
Precautionary statements (GHS-US)	<ul> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection P310 - Immediately call a doctor P260 - Do not breathe vapors P264 - Wash hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a doctor if you feel unwell P321 - Specific treatment (see first aid instructions on this label) P363 - Wash contaminated clothing before reuse P391 - Collect spillage</li> </ul>			
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P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up

P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards					
No additional information available					
2.4. Unknown acute toxicity (GHS US	5)				
No data available					
<b>SECTION 3: Composition/Informa</b>	tion on in	gredients			
3.1. Substance					
Substance type	: Mono	-constituent			
Name	: n-BU	TYLTRICHLOROTIN			
CAS No	: 1118-	46-3			
EC no	C no : 214-263-6				
Name		Product identifier	%	GHS-US classification	
n-Butyltrichlorotin		(CAS No) 1118-46-3	95 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	
3.2. Mixture					
Not applicable					
SECTION 4: First aid measures					
4.1. Description of first aid measures	;				
First-aid measures general	media	ove contaminated clothing and sho cal advice immediately (show the la ble show packaging or label.			
First-aid measures after inhalation		ove victim to fresh air and keep at i II, seek medical advice.	est in a position comfo	ortable for breathing. If you feel	

First-aid measures after skin contact	:	Wash with plenty of soap and water. Get immediate 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 immediate medical advice/attention.
First-aid measures after ingestion	:	Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2. Most important symptoms and effe	ects,	both acute and delayed
Symptoms/injuries	:	Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	:	May cause respiratory irritation.
Symptoms/injuries after skin contact	:	Causes (severe) skin burns. Organotins may be absorbed through the skin.
Symptoms/injuries after eye contact	:	Causes serious eye damage.
Sumptomoliniurios ofter ingestion		May be bermful if availawed

Symptoms/injuries after ingestion : May be harmful if swallowed.

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.

SECT	ION 5: Firefighting measu	Jres
5.1.	Extinguishing media	
Suitable	e 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 ha	zard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3.	Advice for firefighters	
Firefigh	ting instructions	: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protect	on during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.</li> </ul>

6.1.	Personal precautions, protective equipment and emergency procedures		
6.1.1.	For non-emergency personnel		
Protecti	ve equipment	: Wear protective equipment as described in Section 8.	

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Emergency procedures	: Evacuate unnecessary	personnel.
6.1.2. For emergency resp		
Protective equipment		ction without suitable protective equipment. Equip cleanup crew with irther information refer to section 8: "Exposure controls/personal
6.2. Environmental preca	autions	
Prevent entry to sewers and pu	blic waters. Notify authorities if liquid enters s	ewers or public waters.
6.3. Methods and materi	al for containment and cleaning up	
For containment		likes or absorbents to prevent migration and entry into sewers or
Methods for cleaning up		oon as possible, using an absorbent material to collect it. Sweep or riate container for disposal. Collect spillage.
6.4. Reference to other s	sections	
See Heading 8. Exposure contr	ols and personal protection.	
SECTION 7: Handling a	nd storage	
7.1. Precautions for safe	-	
Precautions for safe handling	•	ontact and do not breathe vapor and mist. Use only outdoors or in a
	well-ventilated area.	
Hygiene measures		thing before reuse. Wash hands and other exposed areas with mild eating, drinking or smoking and when leaving work.
7.2. Conditions for safe	storage, including any incompatibilities	
Storage conditions	: Keep container tightly cl	osed. Store locked up.
Incompatible materials	: Bases. Reducing agents	
Storage area	: Store in a well-ventilated	d place. Store away from heat.
7.3. Specific end use(s)		
No additional information availa	ble	
<b>SECTION 8: Exposure c</b>	ontrols/personal protection	
8.1. Control parameters		
n-Butyltrichlorotin (1118-46	-3)	
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> as tin
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	0.2 mg/m³ as tin (skin)
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> as tin
8.2. Exposure controls		
Appropriate engineering control	s : Provide local exhaust or	general room ventilation.
Personal protective equipment		xposure. Emergency eye wash fountains and safety showers should be te vicinity of any potential exposure.
Hand protection	: Neoprene or nitrile rubb	er gloves.
Eye protection	•	e shield. Contact lenses should not be worn.
Skin and body protection	: Wear suitable protective	
Respiratory protection		h inhalation may occur from use, respiratory protection equipment is certified combination organic vapor/acid gas (yellow cartridge)
<b>SECTION 9: Physical ar</b>	d chemical properties	
	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear liquid.	
Molecular mass	: 282.17 g/mol	
Color	: Straw.	
Odor	: Irritating.	
Odor threshold	: No data available	
Refractive index	: 1.5229	
pH	: No data available	

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Freezing point	: -63 °C
Boiling point	: 93 °C @ 10 mm Hg
Flash point	: >110 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 1 mm Hg @ 20°C
Relative vapor density at 20 °C	: >1
Relative density	: 1.693
Solubility	: Slightly. Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

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	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
Bases. Reducing agents. Direct sunlight.	
10.6. Hazardous decomposition products	
Organic acid vapors. Tin oxides.	

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

11.1. Information on toxicological effects	Net stees?" a d
Acute toxicity	: Not classified
n-Butyltrichlorotin (1118-46-3)	
LD50 oral rat	2140 mg/kg
ATE US (oral)	2140.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	Skin Irritation - rabbit: 750 ug/24H: severe irritation effect
Serious eye damage/irritation	: Causes serious eye damage.
	Eye Irritation - rabbit: 50 ug/24H: severe irritation effect
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
	None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes (severe) skin burns. Organotins may be absorbed through the skin.

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Symptomskipulska akter ingestion       i. May be harmful if swaltowed;         StepCons 12: Ecological information         12.1. Toxicity         Ecology : general       : Very toxic to aqualic life.         12:0. Toxicity         12:1. Toxicity         13:1. Toxicity	Symptoms/injuries after eye contact	: Causes serious eye damage.
SECTION 142: Ecological information         12.1.       Toxicity         Ecology - general       : Very toxic to aquato life.         P-Butytrichlorotin (118-46-3)		
12.1       Toxicity         Ecology - general       : Very toxic to aquatic life.         P-Butyfirthioroin (1118-46-3)       LC00 liph 1         LC00 liph 1       8.3 mpl Daphin angung (veter fea)         EC00 Dephins 1       8.3 mpl Daphin angung (veter fea)         EC00 Columnation available       0.31 mg1 Scenedesmus subspicatus         12.2.       Persistence and dependation         No additional information available       10.31 mg1 Scenedesmus subspicatus         12.4.       Mobility in soil         No additional information available       10.31 mg1 Scenedesmus subspicatus         12.5.       Other adverse effects         Effect on nozone layer       : No additional information available         13.1.       Waste treatment methoda         Sewage disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.         Waste disposal recommendations       : Do not dispose of waste into sewar.     <		
Ecology - general       ? Very toxic to aquatic life.         In-Burgtrichtorotin (118-66-3)	SECTION 12: Ecological information	
In-Burytinchorotin (1118-46-3)       > 100 mg/l Dania revio (22bra fish)         LC50 Daphnia 1       B sing Daphnia magna (water fies)         EC50 Daphnia 1       B sing Daphnia magna (water fies)         EC50 Galagei       0.31 mg/l Scenedesmus subspicatus         22.2       Persistence and degradability         No additional information available       Information available         22.4       Mobility in soil         No additional information available       Information available         25.5       Other adverse effects         Effect on cone layer       : No additional information available         25.1       Waste treatment methods         Security 111       Do not dispose of waste into sewer.         Waste disposal considerations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Un diverse to the environment.         SECTION 14: Transport information       : Waste for adverse effects         Proof Shipping name       Proof Shipping name         Proof Shipping Name (DOT)       : 2285         DOT Na no.       : UN3265         14.2       UN proofer shipping name	12.1. Toxicity	
LC50 Dish.1       2 100 mgl Danio ario (Zabra fait)         EC50 Diphinia 1       E3 mgl Danio ario (Zabra fait)         EC50 Cajuna 1       E3 mgl Danio ario (Zabra fait)         EC50 Diphinia 1       E3 mgl Danio ario (Zabra fait)         No additional information available       E3         E2.1       Bioaccumulative potential         No additional information available       E3         E2.4       Mobility in soil         No additional information available       E3         E16ct on the global warning       : No known scological damage caused by this product.         SECTION 13: Disposal considerations       : Do not dispose of waste into sever.         Waste disposal recommendations       : Do not dispose of waste into sever.         Waste disposal recommendations       : Do not dispose of waste into sever.         Waste disposal recommendations       : Do not dispose of waste into sever.         Waste disposal recommendations       : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to locansed water disposal facility.         Waste disposal recommendations       : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to locansed disposal facility.         Waste disposal recommendations       : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to locansed disposal facil	Ecology - general	: Very toxic to aquatic life.
LC50 Diphoia 1       2 100 mg/D Danio mrio (Zabra fish)         EC50 Diphoia 1       E3 mg/D Danio mg/a (water files)         EC50 Capitonia 1       E3 mg/D Danio mg/a (water files)         EC50 Diphoia 1       E3 mg/D Danio mg/a (water files)         EC50 Diphoia 1       E3 mg/D Danio mg/a (water files)         No additional information available       No additional information available         12.4       Mobility in soil         No additional information available       No known ecological damage caused by this product.         SECTION 13: Disposal considerations       I No known ecological damage caused by this product.         SECTION 13: Disposal considerations       D Don dispose of waste into sever.         Waste disposal recommendations       D Don dispose of waste into sever.         Waste disposal recommendations       D Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to locased waste disposal facility.         Waste disposal recommendations       UNAvol (PCOT)       I Waste disposal (DOT)         Variational high manne       Proper Shipping name       Promove liquid, acide, organic, n.o.s.         Proper Shipping Name (DOT)       Corrosive liquid, acide, organic, n.o.s.       G - Identifies PSN requiring a technical name         Packaging Ou (DOT)       I - Manio Dange       G - Identifies PSN requiring a technical name         Pac	n-Butyltrichlorotin (1118-46-3)	
EC50 Daphnia 1       B3 mg1 Daphnia magna (water flea)         EC60 (dgne)       0.31 mg1 Scenedesmus subspicatus         12.2       Persistence and degradability         No additional information available       12.3. Bioaccumulative potential         12.4       Mobility in soil         No additional information available       12.4. Mobility in soil         12.5       Other adverse effects         Effect on come layer       : No additional information available         12.4. Mobility in soil       No additional information available         13.4. Mosting in a soft maxima available       10.4 not depose of vaste into sever.         SECTION 13: Disposal considerations       : Do not depose of vaste into sever.         Waste disposal recommendations       : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/softainer to locnsed waste disposal facility.         SECTION 14: Transport information       : UN3255         14.1       UN number         UNNo.(DCT)       : 3285         14.2. UN proper shipping name       : Corrosive liquid, acidic, organic, n.o.s.         Proper Shipping Name (DOT)       : 3285         14.2. UN proper shipping name       : Corrosive liquid, acidic, organic, n.o.s.         Proper Shipping Name (DOT)       : 3285         DOT Symbols       : G - Identifies PSN		> 100 mg/l Danio rerio (Zebra fish)
ErCS0 (eige)       0.31 mgf Scenedesmus subspicatus         12.2.       Persistance and degradability         No additional information available       12.3         12.4.       Mobility in soil         No additional information available       12.4         12.4.       Mobility in soil         No additional information available       12.5         12.6.       Other adverse effects         Effect on core layer       : No additional information available         13.1.       Waste treatment methods         Sewage disposal incommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to leanesd waste disposal facility.         Ecology - waste material       : Avoid release to the environment.         SECTION 142 Transport information       14.1       UN houmber         UNNo (DOT)       : 28265       14.4       UN proper shipping name         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s.       (r-Hentifies PSN requiring a technical name         Praking group (DOT)       : B - Glass & - Corrosive       Sectorasive material 49 CFR 173.136         Hazard labels (DOT)       : B - Gensite PSN requiring a technical name       Praking group (DOT)	EC50 Daphnia 1	
12.2. Persistence and degradability         Na additional information available         12.3. Bioaccumulative potential         No additional information available         12.4. Mobility in soil         No additional information available         12.5. Other adverse effects         Effect on coone layer         Effect on coone layer         Section 13: Disposal considerations         13.1. Waste treatment methods         Sewage disposal recommendations         Yaste disposal recommendations         Yaste disposal recommendations         Yaste disposal recommendations         Secology - waste materials         Secology - waste materials         Secology - waste materials         Yaste disposal promemendations         Yaste disposal promemendation         Yaste disposal p	· · · ·	
No additional information available  2.3. Bioaccumulative potential No additional information available  2.4. Mobility in soil No additional information available  2.5. Other adverse effects  2.6. Other adverse effects  2.7. Other adverse effects  2.7. Other adverse effects  2.8. Other adverse effects  2.9. Other adverse effects  2.9. Other adverse effects  2.9. Other adverse effects  2.9. Other adverse effects  3.0. Waste treatment methods  3.1. Waste treatment methods  3.2. Other adverse effects  3.2. UN proper shipping name  3.3. Waste treatment methods  3.4. UN number  3.5. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.6. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.7. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.7. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.6. Oronsive  3.7. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.7. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.8. Oronsive  3.9. Oronsive  3.9. Oronsive disposal formation  3.9. Oronsive liquid, acide, organic, n.o.s. (m-BUTYLTRICH-LOROTIN)  3.9. Oronsive  3.9.		
12.3.       Bioaccumulative potential         Na additional information available         12.4.       Mobility in soil         Na additional information available         12.5.       Other advarse effects         Effect on azone layer       : No additional information available         13.1.       Waste treatment methods         Severage disposal recommendations       : Do not dispose of waste in saver.         Waste disposal recommendations       : Do page and in a safe manner in accordance with local/national regulations. Dispose of contents:container to licensed waste disposal facility.         Ecology - waste materials       : Do not dispose to the environment.         SECTION 14: Transport information       : UN3265         14.1       UN number       : UN3265         14.2       UW proper shipping name       : Corrosive liquid, acidic, organic, n.o.s. (nEUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : B - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : B - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 242         DOT Packaging Exceptions (49 CFR 173.xxx)       : 242         DOT Packaging Storeptions (49 CFR 173.xxx)       : 242         DOT Packaging Buk (49 CFR 173.xxx)       : 242         DT Packaging Buk (49 CFR 173.xxx)       : 2		
No additional information available         12.4       Mobility in soil         Restrict on available         21.5.       Other adverse effects         Effect on azone layer       : No additional information available         Effect on the global warming       : No known ecological damage caused by this product.         SECTION 133 Disposal considerations       :         State disposal recommendations       :         Vaste disposal recommendations       :         State disposal recommendations       :         Colory - waste materials       :         Vaste disposal recommendations       :         Vaste disposal recommendat	40.2 Discoursulative retential	
12.4. Mobility in soil         Na additional information available         12.5. Other adverse effects         Effect on zone layer       : No additional information available         Effect on zone layer       : No known ecological damage caused by this product.         SECTION 13: Disposal considerations       : Do not dispose of waste into sever.         Vaste disposal recommendations       : Do not dispose in a safe manner in accordance with local/inational regulations. Dispose of content-container to locased waste disposal facility.         Ecology - waste materials       : Avoid release to the environment.         SECTION 14: Transport information       : 3285         UNNo (QOT)       : 3285         DOT NA no.       : UN3265         14.2. UN proper shipping name       : Corrosive liquid, acidic, organic, n.o.s.         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s.         (nBUTVLTRICHLOROTIN)       : Records a set of consolve material 49 GFR 173.136         Hazard labels (DOT)       : B - Corrosive         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : Under		
No additional information available		
12.5. Other adverse effects         Effect on zone layer       : No additional information available         Effect on the global warming       : No known ecological damage caused by this product.         SECTION 13: Disposal Considerations       : Do not dispose of waste into sewer.         State disposal recommendations       : Do not dispose of waste into sewer.         Waste 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.         SECTION 14: Transport information       : UN3265         14.1       UN number         UN-No.(DOT)       : 3265         DOT NA no.       : UN3265         14.2       UN proper shipping name         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTVLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Corrosive         Ward adjust (SOT)       : 8 - Corrosive         Variational information       : II - Medium Danger         DOT Symbols       : G - Identifies PSN requiring a technical name         Packaging Exceptions (49 CFR 173.xxx)       : 202         DOT Packaging Non Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202 </td <td>12.4. Mobility in soil</td> <td></td>	12.4. Mobility in soil	
Effect on ozone layer       : No additional information available         Effect on the global warming       : No known ecological damage caused by this product.         SECTION 13: Disposal considerations       : Do not dispose of waste into sewer.         Swage disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Ecology - waste materials       : Avoid release to the environment.         SECTION 14: Transport information       :         14.1. UN number       UNNo.(DOT)         UNNo.(DOT)       : 3265         DOT NA no.       UN3265         14.2. UN proper shipping name       :         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive         Vorosive       :         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : 11 Medium Danger         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173	No additional information available	
Effect on ozone layer       : No additional information available         Effect on the global warming       : No known ecological damage caused by this product.         SECTION 13: Disposal considerations       : Do not dispose of waste into sewer.         Swage disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Waste disposal recommendations       : Do not dispose of waste into sewer.         Ecology - waste materials       : Avoid release to the environment.         SECTION 14: Transport information       :         14.1. UN number       UNNo.(DOT)         UNNo.(DOT)       : 3265         DOT NA no.       UN3265         14.2. UN proper shipping name       :         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive         Vorosive       :         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : 11 Medium Danger         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173	12.5. Other adverse effects	
Effect on the global warning       : No known ecological damage caused by this product.         SECTION 13: Disposal considerations       : Do not dispose of waste into sewer.         Sewage 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.         SECTION 14: Transport information       : 3265         UN No.(DOT)       : 3265         DOT NA no.       UN3665         14.2. UN proper shipping name		· No additional information available
SECTION 13: Disposal considerations         13.1       Waste treatment methods         Sewage disposal recommendations       :       Do not dispose of waste into sever.         Waste disposal recommendations       :       Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.         Ecclogy - waste materials       :       Avoid release to the environment.         SECTION 14: Transport information       14.1       UN number         101No. (DOT)       :       3265         DOT NA no.       UN3265       14.2         14.2       UN proper shipping name       Proper Shipping Name (DOT)       :         Proper Shipping Name (DOT)       :       2265         DOT NA no.       UN3265       14.2         Hazard labels (DOT)       :       8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       :       8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       :       164         DOT Packaging Buk (49 CFR 173.xxx)       :       154         DOT Packaging Buk (49 CFR 173.xxx)       :       202         DOT Packaging Buk (49 CFR 173.xxx)       :       204         D14.3. Additional Information       :       No supplementary information a	-	
13.1       Waste treatment methods         Sewage disposal recommendations       : Do not dispose of waste into sewer.         Waste 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.         SECTION 14: Transport information       Information         14.1       UN number         UN-No.(DOT)       : 3266         DOT NA no.       UN3265         14.2       UN proper shipping name         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (r-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive         Variant and class(es) (DOT)       : 8 - Corrosive         Poor Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : 11 - Medium Danger         DOT Packaging BND Buk (49 CFR 173.xxx)       : 2422         14.3       Additional information         Cher information       : No supplementary information available.         Transport by sea       .         DOT Vessel Stowage Location       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passengery vessel carrying a number of passengers specified in paragraph (k)(2)(i) of this		
Sewage disposal recommendations       : Do not dispose of waste into sewer.         Waste 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.         SECTION 14: Transport information	SECTION 13: Disposal consideration	IS
Waste 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: A void release to the environment.14.1. UN number:UN-No.(DOT): 3265 DOT NA no.14.2. UN proper shipping name:Proper Shipping Name (DOT): Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)Transport hazard class(es) (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136Hazard labels (DOT): 8 - Class 8 - CorrosiveDOT Symbols: G - I dentifies PSN requiring a technical namePacking group (DOT): 14 - Medium DangerDOT Symbols: 202DOT Packaging Non Bulk (49 CFR 173.xxx): 202DOT Packaging Non Bulk (49 CFR 173.xxx): 202DOT Packaging Non Bulk (49 CFR 173.xxx): 202DOT Vessel Stowage Location: No supplementary information available.Transport by sea DOT Vessel Stowage Location: No supplementary information available.Tansport by sea DOT Vessel Stowage Location: B - (1) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel in which the number of passengers limited to not more than the larger of 25 passenger vessel in which the number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passengery sessel in	13.1. Waste treatment methods	
Ecology - waste materials       : Avoid release to the environment.         SECTION 14: Transport information         14.1. UN number         UN-No. (DOT)       : 3265         DOT NA no.       UN3265         14.2. UN proper shipping name         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 8 - Corrosive inquiring a technical name         Packing group (DOT)       : 154         DOT Packaging Exceptions (49 CFR 173.xxx)       : 202         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Bulk (49 CFR 173.xxx)       : 202         DOT Vessel Stowage Location       : No supplementary information available.	Sewage disposal recommendations	: Do not dispose of waste into sewer.
Ecology - waste materials       is       Avoid release to the environment.         SECTION 14: Transport information         14.1       UN number         UN-No. (DOT)       is       3265         DOT NA no.       UN3265         14.2       UN proper shipping name         Proper Shipping Name (DOT)       :       Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       :       8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       :       8 - Corrosive         DOT Symbols       :       G - Identifies PSN requiring a technical name         Packing group (DOT)       :       II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       :       202         DOT Packaging Bulk (49 CFR 173.xxx)       :       202         DOT Vessel Stowage Location       :       No supplementary information available.         Tansport by	Waste disposal recommendations	
SECTION 14: Transport information         14.1. UN number       UNNo.(DOT)       : 3265         DOT NA no.       UN3265         12.2. UN proper shipping name       Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTVLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 8 - Corrosive         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 202         DOT Packaging Buk (49 CFR 173.xxx)       : 242         13.3. Additional information       : No supplementary information available.         Transport by sea       :       B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is section is exceeded.		
14.1. UN number       UN-No.(DOT)       : 3265         DOT NA no.       UN3265         14.2. UN proper shipping name       Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 8 - Corrosive         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       : 154         DOT Packaging Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Bulk (49 CFR 173.xxx)       : 242         14.3. Additional information       : No supplementary information available.         Transport by sea       E         DOT Vessel Stowage Location       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	Ecology - waste materials	: Avoid release to the environment.
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UN-No.(DOT)       : 3265         DOT NA no.       : UN3265         14.2. UN proper shipping name       Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       :: 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       :: 8 - Corrosive         DOT Symbols       :: G - Identifies PSN requiring a technical name         Packing group (DOT)       :: II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       :: 154         DOT Packaging Buk (49 CFR 173.xxx)       :: 202         DOT Packaging Buk (49 CFR 173.xxx)       :: 242         14.3. Additional information       : No supplementary information available.         Transport by sea       :       B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.		
DOT NA no.       UN3265         14.2. UN proper shipping name       Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN)         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 8 - Corrosive         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       : 202         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 242         14.3. Additional information       : No supplementary information available.         Transport by sea       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers ismited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessel carrying a number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.		3265
14.2. UN proper shipping name         Proper Shipping Name (DOT)       : Corrosive liquid, acidic, organic, n.o.s. (n-BUTYLTRICHLOROTIN )         Transport hazard class(es) (DOT)       : 8 - Class 8 - Corrosive material 49 CFR 173.136         Hazard labels (DOT)       : 8 - Corrosive         DOT Symbols       : G - Identifies PSN requiring a technical name         Packing group (DOT)       : II - Medium Danger         DOT Packaging Exceptions (49 CFR 173.xxx)       : 154         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Bulk (49 CFR 173.xxx)       : 242         14.3. Additional Information       : No supplementary information available.         Transport by sea       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel is nwhich the number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessel is nwhich the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.		
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DOT Packaging Exceptions (49 CFR 173.xxx)       : 154         DOT Packaging Non Bulk (49 CFR 173.xxx)       : 202         DOT Packaging Bulk (49 CFR 173.xxx)       : 242 <b>14.3.</b> Additional information       Other information         Other information       : No supplementary information available. <b>Transport by sea</b> DOT Vessel Stowage Location         DOT Vessel Stowage Location       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	-	
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DOT Packaging Bulk (49 CFR 173.xxx)       : 242         14.3. Additional information       .         Other information       : No supplementary information available.         Transport by sea       .         DOT Vessel Stowage Location       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.		
14.3. Additional information         Other information       : No supplementary information available.         Transport by sea       .         DOT Vessel Stowage Location       : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	· · ·	: 202
Other information       : No supplementary information available.         Transport by sea	DOT Packaging Bulk (49 CFR 173.xxx)	: 242
Transport by sea         DOT Vessel Stowage Location         : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.	14.3. Additional information	
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passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.		
section is exceeded.		passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on
	DOT Vessel Stowage Other	
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Safety Data Sheet

#### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 30 L CFR 175.75)

#### **SECTION 15: Regulatory information**

15.1. US Federal regulations

#### n-Butyltrichlorotin (1118-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

#### n-Butyltrichlorotin (1118-46-3)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

#### 15.3. US State regulations

n-BUTYLTRICHLOROTIN(1	1118-46-3)					
U.S California - Propositio	n 65 - Carcinogens List	No				
U.S California - Propositio Toxicity	n 65 - Developmental	No				
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No				
U.S California - Proposition 65 - Reproductive Toxicity - Male		No				
n-Butyltrichlorotin (1118-46-3)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Pro Re	S California - oposition 65 - productive Toxicity - male	U.S California - Proposition 65 - Reproductive Toxici Male	ty -	Non-significant risk level (NSRL)
No	No	No	)	No		

#### **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.

#### Full text of H-phrases::

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Safety Data Sheet

#### HMIS III Rating

Health

### Flammability

Physical

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

- : 1 Slight Hazard
  - : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 10/23/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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