

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: 9350300 Issue date: 7/22/2022 Version: 1.0

### **SECTION 1: Identification**

| 1.1. Identification                                                                                                                                                                |                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product form<br>Substance name<br>CAS-No.<br>Product code<br>Formula<br>Synonyms<br>Other means of identification<br><b>1.2. Recommended use and restrictions or</b>               | <ul> <li>Substance</li> <li>(Z)-(1,2-Difluorovinyl)tributyltin</li> <li>176506-83-5</li> <li>9350-3-00</li> <li>C14H28F2Sn</li> <li>Tributyl[(Z)-1,2-difluoroethenyl]stannane</li> <li>MFCD30063161</li> </ul> |
| Use of the substance/mixture                                                                                                                                                       | : Laboratory chemicals<br>Manufacture of substances<br>Scientific research and development                                                                                                                     |
| 1.3. Supplier                                                                                                                                                                      |                                                                                                                                                                                                                |
| SynQuest Laboratories, Inc.<br>P.O. Box 309<br>Alachua, FL 32615 - United States of America<br>T (386) 462-0788 - F (386) 462-7097<br>info@synquestlabs.com - www.synquestlabs.com |                                                                                                                                                                                                                |
| 1.4. Emergency telephone number                                                                                                                                                    |                                                                                                                                                                                                                |
| Emergency number                                                                                                                                                                   | : (844) 523-4086 (3E Company - Account 10069)                                                                                                                                                                  |

### SECTION 2: Hazard(s) identification

#### **GHS US classification**

| Acute toxicity (oral) Category 3                                 | H301 | Toxic if swallowed                                    |
|------------------------------------------------------------------|------|-------------------------------------------------------|
| Acute toxicity (dermal) Category 4                               | H312 | Harmful in contact with skin                          |
| Skin corrosion/irritation Category 2                             | H315 | Causes skin irritation                                |
| Serious eye damage/eye irritation Category 2                     | H319 | Causes serious eye irritation                         |
| Reproductive toxicity Category 1A                                | H360 | May damage fertility or the unborn child              |
| Specific target organ toxicity – Single exposure, Category 3,    | H335 | May cause respiratory irritation                      |
| Respiratory tract irritation                                     |      |                                                       |
| Specific target organ toxicity (repeated exposure) Category 1    | H372 | Causes damage to organs through prolonged or repeated |
|                                                                  |      | exposure                                              |
| Hazardous to the aquatic environment – Acute Hazard Category 1   | H400 | Very toxic to aquatic life                            |
| Hazardous to the aquatic environment – Chronic Hazard Category 1 | H410 | Very toxic to aquatic life with long lasting effects  |
| Full text of H statements : see section 16                       |      |                                                       |

2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)



## Safety Data Sheet

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

| Signal word (GHS US)              | : Danger                                                                               |
|-----------------------------------|----------------------------------------------------------------------------------------|
| Hazard statements (GHS US)        | : H301 - Toxic if swallowed                                                            |
|                                   | H312 - Harmful in contact with skin                                                    |
|                                   | H315 - Causes skin irritation                                                          |
|                                   | H319 - Causes serious eye irritation                                                   |
|                                   | H335 - May cause respiratory irritation                                                |
|                                   | H360 - May damage fertility or the unborn child                                        |
|                                   | H372 - Causes damage to organs through prolonged or repeated exposure                  |
|                                   | H410 - Very toxic to aquatic life with long lasting effects                            |
| Precautionary statements (GHS US) | : P201 - Obtain special instructions before use.                                       |
|                                   | P202 - Do not handle until all safety precautions have been read and understood.       |
|                                   | P260 - Do not breathe fumes, mist, spray, vapors.                                      |
|                                   | P264 - Wash skin thoroughly after handling                                             |
|                                   | P270 - Do not eat, drink or smoke when using this product.                             |
|                                   | P271 - Use only outdoors or in a well-ventilated area.                                 |
|                                   | P273 - Avoid release to the environment.                                               |
|                                   | P280 - Wear protective gloves/protective clothing/eye protection/face protection.      |
|                                   | P301+P310 - If swallowed: Immediately call a poison center or doctor.                  |
|                                   | P302+P352 - If on skin: Wash with plenty of soap and water                             |
|                                   | 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.                           |
|                                   | P308+P313 - If exposed or concerned: Get medical advice/attention.                     |
|                                   | P312 - Call a POISON CENTER or doctor/physician if you feel unwell                     |
|                                   | P314 - Get medical advice/attention if you feel unwell.                                |
|                                   | P321 - Specific treatment (see supplemental first aid instructions on this label)      |
|                                   | P322 - Specific treatment (see supplemental first aid instruction on this label)       |
|                                   | P330 - Rinse mouth.                                                                    |
|                                   | P332+P313 - If skin irritation occurs: Get medical advice/attention.                   |
|                                   | P337+P313 - If eye irritation persists: Get medical advice/attention.                  |
|                                   | P362+P364 - Take off contaminated clothing and wash it before reuse.                   |
|                                   | P391 - Collect spillage.                                                               |
|                                   | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.           |
|                                   | P405 - Store locked up.                                                                |
|                                   | P501 - Dispose of contents/container to an approved waste disposal plant               |

2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Substance type

: Mono-constituent

## Safety Data Sheet

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

| Name                                                     | Product identifier       | %     | GHS US classification                                                                                                                                                                                             |
|----------------------------------------------------------|--------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (Z)-(1,2-Difluorovinyl)tributyltin<br>(Main constituent) | CAS-No.: 176506-83-<br>5 | ≤ 100 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 1A, H360<br>STOT SE 3, H335<br>STOT RE 1, H372<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of hazard classes and 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                  | : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.                                              |
| First-aid measures after inhalation         | : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.                                                                 |
| First-aid measures after skin contact       | : Wash with plenty of soap and water. Get immediate medical advice/attention.                                                                                                                                           |
| First-aid measures after eye contact        | : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention.                                     |
| First-aid measures after ingestion          | : Due to its physical form, exposure to this chemical is not likely. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention. |
| 4.2. Most important symptoms and effects    | (acute and delayed)                                                                                                                                                                                                     |
| Symptoms/effects                            | : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.                                                                                                  |
| Symptoms/effects after inhalation           | : May cause drowsiness or dizziness.                                                                                                                                                                                    |
| 4.3. Immediate medical attention and specia | al treatment, if necessary                                                                                                                                                                                              |
| No additional information available         |                                                                                                                                                                                                                         |

| SECTION 5: Fire-fighting measures                                   |                                                                                                                                                                                                                       |  |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 5.1. Suitable (and unsuitable) extinguishing                        | g media                                                                                                                                                                                                               |  |
| Suitable extinguishing media                                        | : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.                                                                                          |  |
| 5.2. Specific hazards arising from the chemical                     |                                                                                                                                                                                                                       |  |
| Fire hazard<br>Explosion hazard                                     | <ul> <li>Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Silicon oxides.</li> <li>Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers.</li> </ul> |  |
| 5.3. Special protective equipment and precautions for fire-fighters |                                                                                                                                                                                                                       |  |
| Firefighting instructions                                           | : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.                                                                                                                                   |  |

### Safety Data Sheet

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

| Protection during firefighting | : Wear gas tight chemically protective clothing in combination with self contained breathing    |
|--------------------------------|-------------------------------------------------------------------------------------------------|
|                                | apparatus. For further information refer to section 8: "Exposure controls/personal protection". |

| SECTION 6: Accidental release measures<br>6.1. Personal precautions, protective equipment and emergency procedures |                                                                                                                                                             |  |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                                    |                                                                                                                                                             |  |
| 6.1.1. For non-emergency personnel                                                                                 |                                                                                                                                                             |  |
| Emergency procedures                                                                                               | : Only qualified personnel equipped with suitable protective equipment may intervene.                                                                       |  |
| 6.1.2. For emergency responders                                                                                    |                                                                                                                                                             |  |
| Protective equipment                                                                                               | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |  |
| Emergency procedures                                                                                               | : Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level.                                                     |  |

#### **6.2. Environmental precautions**

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

| 6.3. Methods and material for containment and cleaning up |                                                                                                                                                                                                                                                   |  |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| For containment                                           | : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.                                                                                                                                                              |  |
| Methods for cleaning up                                   | Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area. |  |
| Other information                                         | : For disposal of solid materials or residues refer to section 13 : "Disposal considerations".                                                                                                                                                    |  |
| 6.4. Reference to other sections                          |                                                                                                                                                                                                                                                   |  |

No additional information available

| SECTION 7: Handling and stor                                       | rage                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1. Precautions for safe handling                                 | ]                                                                                                                                                                                                                                         |
| Precautions for safe handling                                      | : Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. |
| Hygiene measures                                                   | : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                              |
| 7.2. Conditions for safe storage, i                                | ncluding any incompatibilities                                                                                                                                                                                                            |
| Technical measures<br>Storage conditions<br>Incompatible materials | <ul> <li>Comply with applicable regulations.</li> <li>Keep container closed when not in use.</li> <li>Refer to Section 10 on Incompatible Materials.</li> </ul>                                                                           |

Incompatible materials Storage area

: Store in dry, cool, well-ventilated area.

## Safety Data Sheet

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

| SECTION 8: Exposure controls/person                                                                    | al protection                                                                                                                                                           |  |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                        |                                                                                                                                                                         |  |
| 8.1. Control parameters                                                                                |                                                                                                                                                                         |  |
| (Z)-(1,2-Difluorovinyl)tributyltin (176506-83                                                          | 3-5)                                                                                                                                                                    |  |
| No additional information available                                                                    |                                                                                                                                                                         |  |
| 8.2. Appropriate engineering controls                                                                  |                                                                                                                                                                         |  |
| Appropriate engineering controls                                                                       | : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. |  |
| 8.3. Individual protection measures/Person                                                             | nal protective equipment                                                                                                                                                |  |
| Hand protection:                                                                                       |                                                                                                                                                                         |  |
| protective gloves. 29 CFR 1910.138: Hand Protection                                                    |                                                                                                                                                                         |  |
| Eye protection:                                                                                        |                                                                                                                                                                         |  |
| Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection              |                                                                                                                                                                         |  |
| Skin and body protection:                                                                              |                                                                                                                                                                         |  |
| Wear suitable protective clothing                                                                      |                                                                                                                                                                         |  |
| Respiratory protection:                                                                                |                                                                                                                                                                         |  |
| In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection |                                                                                                                                                                         |  |

#### Other information:

Safety shoes. 29 CFR 1910.136: Foot Protection.

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

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

| Physical state                                  | : | Liquid            |
|-------------------------------------------------|---|-------------------|
| Color                                           | : | No data available |
| Odor                                            | : | No data available |
| Odor threshold                                  | : | No data available |
| рН                                              | : | No data available |
| Melting point                                   | : | No data available |
| Freezing point                                  | : | No data available |
| Boiling point                                   | : | No data available |
| Flash point                                     | : | No data available |
| Relative evaporation rate (butyl acetate=1)     | : | No data available |
| Flammability (solid, gas)                       | : | No data available |
| Vapor pressure                                  | : | No data available |
| Relative vapor density at 20 °C                 | : | No data available |
| Relative density                                | : | No data available |
| Molecular mass                                  | : | 353.079 g/mol     |
| Solubility                                      | : | No data available |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Auto-ignition temperature                       | : | No data available |
| Decomposition temperature                       | : | No data available |
| Viscosity, kinematic                            | : | No data available |
| Viscosity, dynamic                              | : | No data available |
| Explosion limits                                | : | No data available |
|                                                 |   |                   |

### Safety Data Sheet

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

| Explosive properties<br>Oxidizing properties | <ul><li>No data available</li><li>No data available</li></ul> |  |
|----------------------------------------------|---------------------------------------------------------------|--|
| 9.2. Other information                       |                                                               |  |

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

**10.4. Conditions to avoid** 

Keep away from heat, sparks and flame.

**10.5. Incompatible materials** 

Strong oxidizing agents.

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

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

| 11.1. Information on toxicological effects                                                              |                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity (dermal)                                                                                 | Toxic if swallowed.<br>Harmful in contact with skin.<br>Not classified                                                                                       |
| (Z)-(1,2-Difluorovinyl)tributyltin (176506-83-5)                                                        |                                                                                                                                                              |
| ATE US (oral)                                                                                           | 100 mg/kg body weight                                                                                                                                        |
| ATE US (dermal)                                                                                         | 1100 mg/kg body weight                                                                                                                                       |
| Serious eye damage/irritation:Respiratory or skin sensitization:Germ cell mutagenicity:Carcinogenicity: | Causes skin irritation.<br>Causes serious eye irritation.<br>Not classified<br>Not classified<br>Not classified<br>May damage fertility or the unborn child. |

- : May cause respiratory irritation.
  - : Causes damage to organs through prolonged or repeated exposure.
  - : Not classified
  - : No data available
    - : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
    - : May cause drowsiness or dizziness.

STOT-single exposure

Aspiration hazard

Symptoms/effects

Viscosity, kinematic

STOT-repeated exposure

Symptoms/effects after inhalation

## Safety Data Sheet

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

| 12.1. Toxicity                      |  |  |
|-------------------------------------|--|--|
| No additional information available |  |  |
| 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. Other adverse effects         |  |  |
| No additional information available |  |  |

## 13.1. Disposal methods

| Waste treatment methods                    | : Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Product/Packaging disposal recommendations | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Additional information                     | : Recycle the material as far as possible.                                                    |

| <b>SECTION 14: Transport information</b>                                                                               |                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14.1. UN number                                                                                                        |                                                                                                                                                                         |
| DOT NA No<br>UN-No. (TDG)<br>UN-No. (IMDG)<br>UN-No. (IATA)                                                            | : UN2788<br>: Not applicable<br>: 2788<br>: 2788                                                                                                                        |
| 14.2. UN proper shipping name                                                                                          |                                                                                                                                                                         |
| Proper Shipping Name (DOT)<br>Proper Shipping Name (TDG)<br>Proper Shipping Name (IMDG)<br>Proper Shipping Name (IATA) | <ul> <li>Organotin compounds, liquid, n.o.s.</li> <li>Not applicable</li> <li>ORGANOTIN COMPOUND, LIQUID, N.O.S.</li> <li>Organotin compound, liquid, n.o.s.</li> </ul> |
| 14.3. Transport hazard class(es)                                                                                       |                                                                                                                                                                         |
| <b>DOT</b><br>Transport hazard class(es) (DOT)                                                                         | : 6.1                                                                                                                                                                   |

Transport hazard class(es) (DOT) Hazard labels (DOT)



## Safety Data Sheet

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



| TDG                                                                                        |                                             |
|--------------------------------------------------------------------------------------------|---------------------------------------------|
| Transport hazard class(es) (TDG)                                                           | : Not applicable                            |
| IMDG<br>Transport hazard class(es) (IMDG)<br>Hazard labels (IMDG)                          | : 6.1<br>: 6.1                              |
| IATA<br>Transport hazard class(es) (IATA)<br>Hazard labels (IATA)                          | : 6.1<br>: 6.1                              |
| 14.4. Packing group                                                                        |                                             |
| Packing group (DOT)<br>Packing group (TDG)<br>Packing group (IMDG)<br>Packing group (IATA) | : III<br>: Not applicable<br>: III<br>: III |
| 14.5. Environmental hazards                                                                |                                             |
| Dangerous for the environment<br>Marine pollutant                                          | : Yes<br>: Yes                              |
| Other information                                                                          | : No supplementary information available.   |
| 14.6. Special precautions for user                                                         |                                             |
| DOT<br>UN-No.(DOT)                                                                         | : UN2788                                    |

UN-No.(DOT)

: UN2788

## Safety Data Sheet

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

| DOT Special Provisions (49 CFR 172.102)                             | : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                     | <ul> <li>T7 - 4 178.274(d)(2) Normal</li></ul>                                                                                                                                                                                                                                                                                                                                                      |
| DOT Packaging Exceptions (49 CFR 173.xxx)                           | : 153                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                             | : 203                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Packaging Bulk (49 CFR 173.xxx)                                 | : 241                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Quantity Limitations Passenger aircraft/rail (49<br>CFR 173.27) | : 60 L                                                                                                                                                                                                                                                                                                                                                                                              |
| DOT Quantity Limitations Cargo aircraft only (49<br>CFR 175.75)     | : 220 L                                                                                                                                                                                                                                                                                                                                                                                             |
| DOT Vessel Stowage Location                                         | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a                                                                                                                                                                                                                                                                                                               |
|                                                                     | passenger vessel.                                                                                                                                                                                                                                                                                                                                                                                   |
| DOT Vessel Stowage Other                                            | : 40 - Stow "clear of living quarters"                                                                                                                                                                                                                                                                                                                                                              |
| TDG                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Emergency Response Guide (ERG) Number                               | : 153                                                                                                                                                                                                                                                                                                                                                                                               |
| IMDG                                                                |                                                                                                                                                                                                                                                                                                                                                                                                     |
| Special provision (IMDG)                                            | : 43, 223, 274                                                                                                                                                                                                                                                                                                                                                                                      |
| Limited quantities (IMDG)                                           | : 5L                                                                                                                                                                                                                                                                                                                                                                                                |
| Excepted quantities (IMDG)                                          | : E1                                                                                                                                                                                                                                                                                                                                                                                                |
| Packing instructions (IMDG)                                         | : P001, LP01                                                                                                                                                                                                                                                                                                                                                                                        |
| IBC packing instructions (IMDG)                                     | : IBC03                                                                                                                                                                                                                                                                                                                                                                                             |
| Tank instructions (IMDG)<br>Tank special provisions (IMDG)          | : T7<br>• TP2 TP29                                                                                                                                                                                                                                                                                                                                                                                  |
| EmS-No. (Fire)                                                      | : TP2, TP28<br>: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE                                                                                                                                                                                                                                                                                                                                   |
| EmS-No. (Spillage)                                                  | : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES                                                                                                                                                                                                                                                                                                                                                   |
| Stowage category (IMDG)                                             | : A                                                                                                                                                                                                                                                                                                                                                                                                 |
| Properties and observations (IMDG)                                  | A wide variety of toxic liquids. Toxic if swallowed, by skin contact or by inhalation.                                                                                                                                                                                                                                                                                                              |
| ΙΑΤΑ                                                                |                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                     | : 663                                                                                                                                                                                                                                                                                                                                                                                               |
| CAO packing instructions (IATA)                                     |                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                     | : 220L                                                                                                                                                                                                                                                                                                                                                                                              |
| CAO packing instructions (IATA)                                     |                                                                                                                                                                                                                                                                                                                                                                                                     |

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

#### Not applicable

## Safety Data Sheet

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

| SECTION 15: Regulatory information                                                     |                                           |                                                     |  |
|----------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|--|
| 15.1. US Federal regulations                                                           |                                           |                                                     |  |
| All components of this product are present and listed as (TSCA) inventory, except for: | s Active on the United States Environment | ntal Protection Agency Toxic Substances Control Act |  |
| (Z)-(1,2-Difluorovinyl)tributyltin                                                     | CAS-No. 176506-83-5                       | 100%                                                |  |
| 15.2. International regulations                                                        |                                           |                                                     |  |
| CANADA                                                                                 |                                           |                                                     |  |
| No additional information available                                                    |                                           |                                                     |  |
| EU-Regulations                                                                         |                                           |                                                     |  |
| No additional information available                                                    |                                           |                                                     |  |
| National regulations                                                                   |                                           |                                                     |  |

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### **SECTION 16: Other information**

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

| Full text of H-phrases |                                                                |  |
|------------------------|----------------------------------------------------------------|--|
| H301                   | Toxic if swallowed                                             |  |
| H312                   | Harmful in contact with skin                                   |  |
| H315                   | Causes skin irritation                                         |  |
| H319                   | Causes serious eye irritation                                  |  |
| H335                   | May cause respiratory irritation                               |  |
| H360                   | May damage fertility or the unborn child                       |  |
| H372                   | Causes damage to organs through prolonged or repeated exposure |  |
| H400                   | Very toxic to aquatic life                                     |  |
| H410                   | Very toxic to aquatic life with long lasting effects           |  |

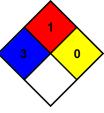
NFPA health hazard

NFPA fire hazard

NFPA reactivity

: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
: 1 - Materials that must be preheated before ignition can occur.

: 0 - Material that in themselves are normally stable, even under fire conditions.



| Hazard Rating |                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Health        | : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given                                                                    |
| Flammability  | : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB) |

### Safety Data Sheet

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

#### Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

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