

## SAFETY DATA SHEET

Creation Date 18-May-2011

Revision Date 14-Feb-2020

Revision Number 3

### 1. Identification

**Product Name** 4-Nitrophenyl 2-(trimethylsilyl)ethyl carbonate

**Cat No. :** H60466

**CAS-No** 80149-80-0

**Synonyms** 2-(Trimethylsilyl)ethyl 4-nitrophenyl carbonate; TEOC-ONp

**Recommended Use** Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

**Details of the supplier of the safety data sheet**

**Company**

Alfa Aesar  
Thermo Fisher Scientific Chemicals, Inc.  
30 Bond Street  
Ward Hill, MA 01835-8099  
Tel: 800-343-0660  
Fax: 800-322-4757  
**Email:** tech@alfa.com  
www.alfa.com

**Emergency Telephone Number**

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.  
After normal business hours, call Carechem 24 at (866) 928-0789.

### 2. Hazard(s) identification

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                  |            |
|--------------------------------------------------|------------|
| Skin Corrosion/Irritation                        | Category 2 |
| Serious Eye Damage/Eye Irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Target Organs - Respiratory system.              |            |

**Label Elements**

**Signal Word**

Warning

**Hazard Statements**

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Call a POISON CENTER or doctor/physician if you feel unwell

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified

### 3. Composition/Information on Ingredients

| Component                                       | CAS-No     | Weight % |
|-------------------------------------------------|------------|----------|
| 4-Nitrophenyl 2-(trimethylsilyl)ethyl carbonate | 80149-80-0 | >95      |

### 4. First-aid measures

|                                            |                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b>                      | If symptoms persist, call a physician.                                                                            |
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Skin Contact</b>                        | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                          | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| <b>Ingestion</b>                           | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.             |
| <b>Most important symptoms and effects</b> | None reasonably foreseeable.                                                                                      |
| <b>Notes to Physician</b>                  | Treat symptomatically                                                                                             |

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available  
**Method -** No information available

**Autoignition Temperature** No information available

**Explosion Limits**

**Upper** No data available

**Lower** No data available

**Sensitivity to Mechanical Impact** No information available

**Sensitivity to Static Discharge** No information available

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Silicon dioxide.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

**Health**  
2

**Flammability**  
1

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Handle and store contents under nitrogen. Protect from moisture.

## 8. Exposure controls / personal protection

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

|                                 |                                                                                                                                                                             |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face Protection</b>      | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                   |
| <b>Respiratory Protection</b>   | No protective equipment is needed under normal use conditions.                                                                                                              |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.                                                                                                      |

## 9. Physical and chemical properties

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| <b>Physical State</b>                         | Solid                                               |
| <b>Appearance</b>                             | Pale yellow                                         |
| <b>Odor</b>                                   | No information available                            |
| <b>Odor Threshold</b>                         | No information available                            |
| <b>pH</b>                                     | No information available                            |
| <b>Melting Point/Range</b>                    | 38 - 40 °C / 100.4 - 104 °F                         |
| <b>Boiling Point/Range</b>                    | No information available                            |
| <b>Flash Point</b>                            | No information available                            |
| <b>Evaporation Rate</b>                       | Not applicable                                      |
| <b>Flammability (solid,gas)</b>               | No information available                            |
| <b>Flammability or explosive limits</b>       |                                                     |
| Upper                                         | No data available                                   |
| Lower                                         | No data available                                   |
| <b>Vapor Pressure</b>                         | No information available                            |
| <b>Vapor Density</b>                          | Not applicable                                      |
| <b>Specific Gravity</b>                       | No information available                            |
| <b>Solubility</b>                             | No information available                            |
| <b>Partition coefficient; n-octanol/water</b> | No data available                                   |
| <b>Autoignition Temperature</b>               | No information available                            |
| <b>Decomposition Temperature</b>              | No information available                            |
| <b>Viscosity</b>                              | Not applicable                                      |
| <b>Molecular Formula</b>                      | C <sub>12</sub> H <sub>17</sub> N O <sub>5</sub> Si |
| <b>Molecular Weight</b>                       | 283.36                                              |

## 10. Stability and reactivity

|                                         |                                                                                                                                                                                        |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactive Hazard</b>                  | None known, based on information available                                                                                                                                             |
| <b>Stability</b>                        | Stable under recommended storage conditions. Moisture sensitive. Air sensitive.                                                                                                        |
| <b>Conditions to Avoid</b>              | Incompatible products. Excess heat. Avoid dust formation. Exposure to air.                                                                                                             |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong acids, Water, Bases                                                                                                                                    |
| <b>Hazardous Decomposition Products</b> | Thermal decomposition can lead to release of irritating gases and vapors, Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Nitrogen oxides (NO <sub>x</sub> ), Silicon dioxide |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.                                                                                                                                               |
| <b>Hazardous Reactions</b>              | None under normal processing.                                                                                                                                                          |

## 11. Toxicological information

### Acute Toxicity

|                                             |                                                             |
|---------------------------------------------|-------------------------------------------------------------|
| <b>Product Information</b>                  | No acute toxicity information is available for this product |
| <b>Component Information</b>                |                                                             |
| <b>Toxicologically Synergistic Products</b> | No information available                                    |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component                                             | CAS-No     | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------------------------------------------|------------|------------|------------|------------|------------|------------|
| 4-Nitrophenyl<br>2-(trimethylsilyl)ethyl<br>carbonate | 80149-80-0 | Not listed | Not listed | Not listed | Not listed | Not listed |

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** Respiratory system  
**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

**DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

## 15. Regulatory information

### United States of America Inventory

| Component                             | CAS-No     | TSCA | TSCA Inventory notification -<br>Active/Inactive | TSCA - EPA Regulatory<br>Flags |
|---------------------------------------|------------|------|--------------------------------------------------|--------------------------------|
| 4-Nitrophenyl 2-(trimethylsilyl)ethyl | 80149-80-0 | -    | -                                                | -                              |

|           |  |  |  |  |
|-----------|--|--|--|--|
| carbonate |  |  |  |  |
|-----------|--|--|--|--|

**Legend:**

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

- - Not Listed

TSCA 12(b) - Notices of Export Not applicable

**International Inventories**

Canada (DSL/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

| Component                                       | CAS-No     | DSL | NDSL | EINECS    | PICCS | ENCS | AICS | IECSC | KECL |
|-------------------------------------------------|------------|-----|------|-----------|-------|------|------|-------|------|
| 4-Nitrophenyl 2-(trimethylsilyl)ethyl carbonate | 80149-80-0 | -   | -    | 279-406-7 | -     | -    | -    | -     | -    |

**U.S. Federal Regulations**

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

**Other International Regulations**

Mexico - Grade No information available

**16. Other information**

Prepared By Health, Safety and Environmental Department  
Email: tech@alfa.com  
www.alfa.com

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Revision Summary SDS authoring systems update, replaces ChemGes SDS No. 80149-80-0.

**Disclaimer**

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**End of SDS**