

#### Revision number: 2 Revision date: 10/06/2014

## 1. IDENTIFICATION

2-(tert-Butoxycarbonyloxyimino)-2-phenylacetonitrile B0988

For laboratory research purposes.

**TCI AMERICA** 

SAFETY DATA SHEET

### Product use: Restrictions on use:

Product name:

Product code:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

## 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 3] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Danger!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Toxic if swallowed

### Pictogram(s) or Symbol(s):



 $\diamond$ 

Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

wash it before reuse. 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 or attention. Store locked up.

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: Substance 2-(tert-Butoxycarbonyloxyimino)-2-phenylacetonitrile >98.0%(N)

Not for drug or household use.

Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

| 3. COM CONTONING ON MORE DENTS |                                     |  |  |  |
|--------------------------------|-------------------------------------|--|--|--|
| CAS Number:                    | 58632-95-4                          |  |  |  |
| Molecular Weight:              | 246.27                              |  |  |  |
| Chemical Formula:              | $C_{13}H_{14}N_2O_3$                |  |  |  |
| Synonyms:                      | 2-Boc-oxyimino-2-phenylacetonitrile |  |  |  |
|                                |                                     |  |  |  |

# 4. FIRST-AID MEASURES

| 4. TINGT-AID MEASURES  |  |  |  |  |  |
|--|--|--|--|--|--|
| Inhalation:  | Immediately call a poison center or doctor. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take  |  |  |  |  |
| Skin contact: Immediately call a poison center or doctor. Remove and wash contaminated clothing before case of contact with substance, immediately flush skin with running water for at least 20 min symptomatically and supportively. Ensure that medical personnel are aware of the material |  |  |  |  |  |
| Eye contact:   | take precautions to protect themselves.<br>IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with<br>material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and<br>remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of<br>exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s)   |  |  |  |  |
| Ingestion:   | involved and take precautions to protect themselves.<br>Toxic if swallowed. Do not induce vomiting with out medical advice. If swallowed, seek medical advice<br>immediately and show the container or label. Do not use mouth-to-mouth method if victim ingested the<br>substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other<br>proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person<br>vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth.<br>Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are<br>aware of the material(s) involved and take precautions to protect themselves. |  |  |  |  |
| Symptoms/effects:  |  |  |  |  |  |
| Acute:<br>Delayed:   | Redness.<br>No data available  |  |  |  |  |
| Immediate medical attention:   | WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, because<br>he inhaled material is toxic. If breathing has stopped, perform artificial respiration. Use first aid treatment<br>according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved<br>and take precautions to protect themselves.   |  |  |  |  |
| 5. FIRE-FIGHTING MEASURES  |  |  |  |  |  |
| Suitable extinguishing media:  | Dry chemical, CO <sub>2</sub> or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.  |  |  |  |  |
| Specific hazards arising from the che  | mical  |  |  |  |  |
| Hazardous combustion products:<br>Other specific hazards:  | These products include: Carbon oxides Nitrogen oxides<br>Closed containers may explode from heat of a fire.  |  |  |  |  |
| heated. Move containers from fire area i<br>Special protective equipment for fire-<br>Wear positive pressure self-contained b  |  |  |  |  |  |
| 6. ACCIDENTAL RELEASE MEAS   | URES   |  |  |  |  |
| Personal precautions:  | Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn  |  |  |  |  |
| Personal protective equipment:   | unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.<br>Isolate the hazard area and deny entry to unnecessary and unprotected personnel.<br>Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust<br>respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves<br>(ritic)  |  |  |  |  |
| Emergency procedures:  | (nitrile).<br>Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing   |  |  |  |  |

Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

## 6. ACCIDENTAL RELEASE MEASURES

### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:** 

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

| 7. HANDLING AND STORAGE        |   |
|--------------------------------|---|
| Precautions for safe handling: | Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. |
| Conditions for safe storage:   | Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store under inert gas (e.g. Argon). Moisture sensitive. Store in refrigerator.   |
| Storage incompatibilities:     | Combustible substances, Store away from oxidizing agents  |

| 8. EXPOSURE CONTROLS / PERSONAL PROTECTIO |  |  |  |
|---|--|--|--|
|   |  |  |  |

## Exposure limits:

No data available

#### Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

| Personal protective equipment |   |
|-------------------------------|---|
| Respiratory protection:       | Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. |
| Hand protection:              | Nitrile gloves.   |
| Eye protection:               | Safety glasses.   |
| Skin and body protection:     | Lab coat.   |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state (20°C):<br>Form:<br>Color:<br>Odor:<br>Odor threshold:  | Solid<br>Crystal - Powder<br>White - Almost white<br>No data available<br>No data available      |  |  |
|--|--|--|--|
| Melting point/freezing point:<br>Boiling point/range:<br>Decomposition temperature:<br>Relative density:<br>Kinematic Viscosity: | 88°C (190°F)<br>No data available<br>No data available<br>No data available<br>No data available | pH:<br>Vapor pressure:<br>Vapor density:<br>Dynamic Viscosity:   | No data available<br>No data available<br>No data available<br>No data available |
| Partition coefficient:<br>n-octanol/water (log P <sub>ow</sub> )   | No data available  | Evaporation rate:<br>(Butyl Acetate = 1)   | No data available  |
| Flash point:<br>Flammability (solid, gas):   | No data available<br>No data available   | Autoignition temperature:<br>Flammability or explosive limit<br>Lower: No data av<br>Upper: No data av | vailable   |

Solubility(ies): Soluble: Methanol

## 10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Heat sensitive. Moisture sensitive. No hazardous reactivity has been reported. Exposure to moisture. Heat sensitive. Moisture sensitive. Oxidizing agents No data available **11. TOXICOLOGICAL INFORMATION** 

| Acute Toxicity:<br>No data available  |   |  |  |   |
|---|---|--|--|---|
| Skin corrosion/irritation:<br>No data available   |   |  |  |   |
| Serious eye damage/irritation:<br>No data available   |   |  |  |   |
| Respiratory or skin sensitization:<br>No data available   |   |  |  |   |
| Germ cell mutagenicity:<br>No data available  |   |  |  |   |
| Carcinogenicity:  |   |  |  |   |
| No data available   |   |  |  |   |
| IARC: No data available   | NTP:  | No data available  | OSHA:  | No data available   |
| <b>Reproductive toxicity:</b><br>No data available  |   |  |  |   |
| Routes of Exposure:<br>Symptoms related to exposure:<br>Overexposure may result in serious illness<br>blistering. Skin contact may result in rednes<br>Potential Health Effects:<br>Skin and eye contact may result in irritation<br>Target organ(s): | or death. Skin contac<br>ss, pain or dry skin. E                                      |  | n; characterized by itchin   | g, scaling, reddening, or occasionally  |
| 12. ECOLOGICAL INFORMATION  |   |  |  |   |
|   |   |  |  |   |
| Ecotoxicity   |   |  |  |   |
| Fish:   | No data available   |  |  |   |
| Crustacea:  | No data available   |  |  |   |
| Algae:  | No data available   |  |  |   |
| Persistence and degradability:  | No data available   |  |  |   |
| Bioaccumulative potential (BCF):  | No data available   |  |  |   |
| Mobillity in soil:  | No data available   |  |  |   |
| Partition coefficient:  | No data available   |  |  |   |
| n-octanol/water (log Pow)   |   |  |  |   |
| Soil adsorption (Koc):  | No data available   |  |  |   |
| Henry's Law:<br>constant (PaM³/mol)   | No data available   |  |  |   |
| 13. DISPOSAL CONSIDERATIONS   |   |  |  |   |
| Disposal of product:  | Recycle to proces   | s if possible. It is the genera  | ator's responsibility to co  | mply with Federal, State and Local  |
|   | rules and regulatic<br>chemical incinerat<br>assistance but doe<br>regulatory complia | ons. You may be able to dis<br>or equipped with an afterbu-<br>es not replace these laws, r<br>ince according to the law. U<br>or 40 CFR Parts 261. The pr | solve or mix material with<br>rner and scrubber system<br>or does compliance in a<br>IS EPA guidelines for Ide | h a combustible solvent and burn in a<br>m. This section is intended to provide<br>ccordance with this section ensure<br>entification and Listing of Hazardous<br>wed to enter the environment, drains, |
| Disposal of container:  |   | sed product. Do not re-use   |  |   |
| Other considerations:   | Observe all federa  | al, state and local regulation   | s when disposing of the  | substance.  |
| 14. TRANSPORT INFORMATION   |   |  |  |   |
|   |   |  |  |   |

Non-hazardous for transportation.

14. TRANSPORT INFORMATION

### IATA

Non-hazardous for transportation.

**TCI AMERICA** 

IMDG

Non-hazardous for transportation.

### 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

#### **US Federal Regulations**

#### CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

## State Regulations

### State Right-to-Know

| Massachusetts              | Not Listed |
|----------------------------|------------|
| New Jersey                 | Not Listed |
| Pennsylvania               | Not Listed |
| California Proposition 65: | Not Listed |

#### **Other Information**

#### **NFPA Rating:**

| Health:       | 0             |
|---------------|---------------|
| Flammability: | 0             |
| Physical:     | 0             |
|               | Flammability: |

261-370-9

#### International Inventories

WHMIS hazard class:

EC-No:

### 16. OTHER INFORMATION

### Revision date: 10/06/2014

Revision number: 2

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.

HMIS Classification:

D1B: Materials causing immediate and serious toxic effects. (Toxic)

D2B: Materials causing other toxic effects. (Toxic)