

# TCI AMERICA SAFETY DATA SHEET

Revision number: 3
Revision date: 08/15/2016

### 1. IDENTIFICATION

**Product name:** 3,4-Dichlorobenzotrifluoride

Product code: D1865

**Product use:** For laboratory research purposes. **Restrictions on use:** Not for drug or household use.

Company: TCI America

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TCI America (8:00am - 5:00pm) PST

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Responsible department:

TCI America

Environmental Health Safety and Security

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# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 1]

Flammable Liquids [Category 4]
Skin Corrosion/Irritation [Category 1C]

Signal word: Danger!

Hazard Statement(s): Causes serious eye damage

Causes severe skin burns and eye damage

Combustible liquid

Pictogram(s) or Symbol(s):



Precautionary Statement(s):

[Prevention] Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves,

protective clothing, eye protection and face protection. Wear eye protection. Wear face protection (full length face shield). Keep away from heat, sparks, open flames or other hot surfaces. - No smoking. Wear

protective gloves, eye protection and face protection.

[Response] If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant

foam to extinguish.

[Storage] Store locked up. Store in well-ventilated place. Keep cool.

[Disposal] 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)

Hazards not otherwise classified: [HNOC] May be harmful if swallowed. Lachrymator

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Components: 3,4-Dichlorobenzotrifluoride

 $\begin{array}{lll} \textbf{Percent:} & > 98.0\% (GC) \\ \textbf{CAS Number:} & 328-84-7 \\ \textbf{Molecular Weight:} & 215.00 \\ \textbf{Chemical Formula:} & C_7H_3Cl_2F_3 \\ \end{array}$ 

#### 4. FIRST-AID MEASURES

Eye contact:

Inhalation: Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed.

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 precautions to protect themselves.

Skin contact:

For severe burns, immediate medical attention is required. Immediately call a poison center or doctor.

Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Eye contact

with vapors or substance may cause severe injury, burns, or death. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical

personnel are aware of the material(s) involved and take precautions to protect themselves.

**Ingestion:**Do not induce vomiting with out medical advice. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a

not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat

symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and

take precautions to protect themselves.

Symptoms/effects:

Acute: Pain. Redness.

Delayed: No data available

Immediate medical attention: WARNING: It might be hazardous to the person providing aid to give mouth-to-mouth respiration, because

the inhaled material is corrosive. For severe burns, immediate medical attention is required. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved 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 chemical

Hazardous combustion products:

Other specific hazards:

These products include: Carbon oxides Halogenated compounds WARNING: Highly toxic HCl gas is produced during combustion.

WARNING: Highly toxic HF gas is produced during combustion.

Special precautions for fire-fighters:

Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient. Do not use straight streams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Use spark-proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged

proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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# 6. ACCIDENTAL RELEASE MEASURES

Personal protective equipment: Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Vapor

respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves

(nitrile).

Emergency procedures: Isolate area until gas has dispersed. 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.

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

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. 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:**

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: Do NOT breath gas, fumes, vapor, or spray. Manipulate under an adequate fume hood. Avoid contact with

skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. 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: Keep away from sources of ignition. Store and use away from heat, sparks, open flame, or any other

ignition source. 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.

Storage incompatibilities: Bases, Store away from oxidizing agents

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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: Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.

Hand protection: Wear protective gloves.

Eye protection: Splash goggles.

Skin and body protection: Lab coat.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Form: Clear

Color: Colorless - Almost colorless

Odor: No data available
Odor threshold: No data available

Melting point/freezing point: No data available pH: No data available Boiling point/range: 173°C (343°F) Vapor pressure: No data available **Decomposition temperature:** No data available Vapor density: No data available No data available Relative density: 1.49 **Dynamic Viscosity:** 

Kinematic Viscosity: No data available

Partition coefficient: No data available Evaporation rate: No data available

n-octanol/water (log Pow) (Butyl Acetate = 1)

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point: 65°C (149°F) Autoignition temperature: No data available

Flammability (solid, gas): No data available Flammability or explosive limits:

Lower: No data available

Upper: No data available

Solubility(ies):

### 10. STABILITY AND REACTIVITY

Reactivity: Not Available.

Chemical Stability: Stable under recommended storage conditions. (See Section 7)
Possibility of Hazardous Reactions: In use, may form flammable/explosive vapor-air mixture.

Conditions to avoid: Avoid excessive heat and light.

Incompatible materials:

Hazardous Decomposition Products:

Oxidizing agents

No data available

# 11. TOXICOLOGICAL INFORMATION

RTECS Number: CZ5527510

**Acute Toxicity:** 

orl-rat LD50:1960 uL/kg skn-rbt LD50:>5 g/kg

ihl-rat LC:>15860 mg/m3/4H

Skin corrosion/irritation:

No data available

Serious eye damage/irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

IARC: No data available NTP: No data available OSHA: No data available

Reproductive toxicity:

No data available

Routes of Exposure: Inhalation, Eye contact, Ingestion, Skin contact.

Symptoms related to exposure:

Skin contact may produce burrns. Skin contact may result in inflammation; characterized by itching, scaling, reddening, or occasionally blistering. Eye contact can result in corneal damage or blindness. Overexposure may result in serious illness or death. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Health Effects:

May be harmful if inhaled or ingested. Overexposure may result in serious illness or death.

Target organ(s): No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence and degradability:

Bioaccumulative potential (BCF):

Mobillity in soil:

No data available
No data available
No data available

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### 12. ECOLOGICAL INFORMATION

Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): No data available

Henry's Law: constant (PaM³/mol)

No data available

### 13. DISPOSAL CONSIDERATIONS

Disposal of product:

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains,

water ways, or the soil.

**Disposal of container:** Dispose of as unused product. Do not re-use empty containers.

Other considerations: Observe all federal, state and local regulations when disposing of the substance.

### 14. TRANSPORT INFORMATION

DOT (US)

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1760 Corrosive liquids, n.o.s. 8 Corrosive material

IATA

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1760 Corrosive liquid, n.o.s. 8 Corrosive material

IMDG

UN number: Proper Shipping Name: Class or Division: Packing Group:

UN1760 Corrosive liquid, n.o.s. 8 Corrosive material II

EmS number: F-A, S-B

# 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

MassachusettsNot ListedNew JerseyNot ListedPennsylvaniaNot ListedCalifornia Proposition 65:Not Listed

# Other Information

NFPA Rating: HMIS Classification:

Health:2Health:2Flammability:2Flammability:2Instability:0Physical:0

# International Inventories

WHMIS hazard class: E: Corrosive material.
B3: Combustible Liquid.

**EC-No**: 206-337-1

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# 16. OTHER INFORMATION

Revision date: 08/15/2016 Revision number: 3

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.