



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Arsenic (III) Chloride**  
PRODUCT NUMBER: 1153  
CAS NUMBER: 7784-34-1  
SYNONYMS: Arsenic Trichloride, Arsenous chloride  
MANUFACTURER:

ProChem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H300+H310	Fatal if swallowed or in contact with skin.
H314	Causes skin burns and eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H350	May cause cancer.
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P262	Do not get in eyes, on skin, or on clothing.
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+P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P302+P350+P310	IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### HMIS CLASSIFICATION:

Health: 3 Chronic: \* Fire: 0 Reactivity Hazard: 0

### NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 0

**EYE CONTACT:** May be irritating in contact with eyes.

**SKIN CONTACT:** Fatal in contact with skin.

**INHALATION:** Toxic if inhaled.

**INGESTION:** May be irritating if ingested.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: AsCl<sub>3</sub>

Molecular Weight: 181.28

CHEMICAL NAME	CAS#	%
Arsenic (III) Chloride	7784-34-1	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen chloride gas and arsenic oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid breathing vapors, mist, gas, or dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Soak spill up with absorbent material. Place material in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid contact with skin and eyes. Avoid formation of dust.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Light and moisture sensitive. Store under dry inert gas. Store away from moisture, water, and light.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Arsenic (III) Chloride	0.01 mg/m <sup>3</sup>	TWA	ACGIH
	0.002 mg/m <sup>3</sup>	C	NIOSH
	0.01 mg/m <sup>3</sup>	PEL	OSHA

TWA: Time Weighted Average over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, apron, or lab coat.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Clear liquid

**ODOR:** Acrid

**MOLECULAR WEIGHT:** 181.28

**BOILING POINT:** 130.2° C

**MELTING POINT:** -16°C

**SPECIFIC GRAVITY:** 2.163

**VAPOR DENSITY:** No data available

**SOLUBILITY IN WATER:** Decomposes in water

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY:** Sodium oxides, acids, potassium, bases, aluminum, oxidizing agents, water, moisture, and light

**DECOMPOSITION PRODUCTS:** Hydrogen chloride gas and arsenic oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 48 mg/kg. LD50 Dermal – rat – 80 mg/kg.

**CARCINOGENIC EFFECTS:** Human carcinogen

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**RTECS:** CG1750000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

**DOT:** UN1560

Arsenic trichloride

Class 6.1

PG I

Hazard zone B

**IATA:** Forbidden

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Arsenic (III) Chloride

**SARA 311/312:** Acute Health Hazard, Chronic Health Hazard

**SARA (TITLE 313):** Arsenic (III) Chloride

**MASSACHUSETTES RIGHT TO KNOW:** Arsenic (III) Chloride

**PENNSYLVANIA RIGHT TO KNOW:** Arsenic (III) Chloride

**NEW JERSEY RIGHT TO KNOW:** Arsenic (III) Chloride

**CALIFORNIA PROP. 65:** Not Listed

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

**DATE REVISED:** 02/24

**SDS DEPT.**