



## Safety Data Sheet (SDS) 90028

SDS Revision Date: 02/15/2024

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Identity** 90028

**Alternate Names** 90028

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** Contact ChemStation representative.

**Application Method** Contact ChemStation representative.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** ChemStation Philadelphia  
415 Boot Rd., STE B  
Downingtown, PA 19335

#### Emergency

**CHEMTREC (USA)** (800) 424-9300

**Customer Service: ChemStation Philadelphia** (484) 696-1431

### 2. Hazard identification of the product

#### 2.1. Classification of the substance or mixture

Skin Corr. 1B;H314 Causes severe skin burns and eye damage.

#### 2.2. Label elements



**Danger**

H314 Causes severe skin burns and eye damage.

#### [Prevention]:

P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, face protection.

#### [Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

P363 Wash contaminated clothing before reuse.

**[Storage]:**

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents or container in accordance with local and national regulations.

### 3. Composition/information on ingredients

Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Nitric acid CAS Number: 0007697-37-2	10 - 25	Ox. Liq. 3;H272 Skin Corr. 1A;H314	[1][2]
2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID CAS Number: 0000077-92-9	1.0 - 10	Not Classified	[1]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### Section 4. First-aid measures

#### 4.1. Description of first aid measures

**General**

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

**Inhalation**

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes**

Irrigate copiously with clean fresh water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin**

Immediately flush the area with large amounts of water for at least 15 minutes, while removing contaminated clothing. Launder clothing before re-use. Call a physician.

**Ingestion**

Do NOT induce vomiting. Rinse mouth and slowly drink several glasses of water. Call a physician. Do NOT give anything by mouth to an unconscious or convulsing person.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Overview**

EFFECTS OF OVEREXPOSURE:

SKIN: Direct contact may result in irritation, reddening, swelling, and, if untreated, severe skin damage.

EYES: Contact may cause severe irritation and corneal damage, if untreated.

INGESTION: May cause harmful to fatal chemical burns to the mouth, esophagus, and stomach.

INHALATION: Aerosols and mists may severely damage contacted tissue and produce scarring. Exposure to high concentrations may cause pulmonary edema and chemical pneumonia.

Check section 2.2 (GHS Label Elements) for further details.

### Section 5. Fire-fighting measures

### 5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon and nitrogen.

Do not breathe dust, fume, mist, vapors or spray.

### 5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

**ERG Guide No.** 154

## Section 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Neutralize residual product in the spill area using sodium carbonate or sodium bicarbonate.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a cool dry place.

Incompatible materials: This product will liberate flammable hydrogen gas when in contact with most metals. Avoid contact with cyanides, sulfides, sulfites, chlorine or chlorine bleaches, which would release toxic gases. Avoid contact with strong alkalis and mild steel.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls / personal protection

**8.1. Control Parameters - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).**

**Exposure**

CAS No.	Ingredient	Source	Value
0000077-92-9	2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0007697-37-2	Nitric acid	OSHA	TWA 2 ppm (5 mg/m3)
		ACGIH	TWA: 2 ppm Ceiling: 4 ppm
		NIOSH	TWA 2 ppm (5 mg/m3) ST 4 ppm (10 mg/m3)
		Supplier	No Established Limit
ACGIH	No Established Limit		
NIOSH	No Established Limit		
Supplier	No Established Limit		
ACGIH	No Established Limit		
NIOSH	No Established Limit		
Supplier	No Established Limit		

**Carcinogen Data**

CAS No.	Ingredient	Source	Value
0000077-92-9	2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0007697-37-2	Nitric acid	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
NTP	Known: No; Suspected: No		
IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		
NTP	Known: No; Suspected: No		
IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;		

**8.2. Exposure controls****Respiratory**

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes**

Wear safety glasses with side shields. Chemical safety goggles and face shield should be used if splash hazard exists. Eyewash fountain should be located in the immediate work area.

**Skin**

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. Use neoprene or rubber gloves.

**Engineering Controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices**

An eyewash fountain should be located in areas where the product is used. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

<b>Section 9. Physical and chemical properties</b>
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<b>Appearance</b>	Clear colorless thin liquid
<b>Odor</b>	Mild
<b>Odor threshold</b>	Not Measured
<b>pH</b>	0.0 - 0.5
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	212 deg F
<b>Flash Point</b>	>200 degrees F PMCC (non-flammable)
<b>Evaporation rate (Ether = 1)</b>	0.33
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	Not Determined
<b>Vapor Density</b>	Not Determined
<b>Relative Density</b>	1.085 - 1.095
<b>Solubility in Water</b>	Not Measured
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured
<b>Foaming</b>	Moderate

**9.2. Other information**

No other relevant information.

## Section 10. Stability and reactivity

**10.1. Reactivity**

Hazardous Polymerization will not occur.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

High temperatures, flames, and incompatibles.

Do not store near cyanide or chlorine-containing compounds.

**10.5. Incompatible materials**

This product will liberate flammable hydrogen gas when in contact with most metals. Avoid contact with cyanides, sulfides, sulfites, chlorine or chlorine bleaches, which would release toxic gases. Avoid contact with strong alkalis and mild steel.

**10.6. Hazardous decomposition products**

Oxides of carbon and nitrogen.

## Section 11. Toxicological information

**Accute Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).**

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Nitric acid - (7697-37-2)	No data available	No data available	No data available	2,500.00, Rat - Category: NA	No data available
2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID - (77-92-9)	5,400.00, Mouse -	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

Category: NA

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## Section 12. Ecological information

**12.1. Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).**

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Nitric acid - (7697-37-2)	6,650.00, Gambusia affinis	490.00, Daphnia magna	Not Available
2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID - (77-92-9)	101.00, Pimephales promelas	160.00, Carcinus maenas	Not Available

### 12.2. Persistence and degradability

This product is fully biodegradable.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## Section 14. Transport information

### 14.1. UN number

NA1760

<b>14.2. UN proper shipping name</b>	Compound, Cleaning, Liquid, (Nitric Acid)
<b>14.3. Transport hazard class(es)</b>	8
<b>14.4. Packing group</b>	III

## Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**EPCRA 311/312 Chemicals and RQs (lbs):**

Nitric acid ( 1,000.00)

**EPCRA 302 Extremely Hazardous:**

Nitric acid

**EPCRA 313 Toxic Chemicals:**

Nitric acid

**Proposition 65 - Carcinogens (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Developmental Toxins (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Female Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Male Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**N.J. RTK Substances (>1%):**

Nitric acid

**Penn RTK Substances (>1%):**

Nitric acid

## Section 16. Other information

**Issue Date** 05/12/2015

**Revision History** 05/12/2015

06/18/2015

10/22/2015

11/16/2015

09/16/2018

05/27/2022

07/19/2022

12/03/2022

12/19/2022

04/03/2023

08/18/2023

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The full text of the phrases appearing in section 3 is:

H272 May intensify fire; oxidizer.

H314 Causes severe skin burns and eye damage.

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