

# SAFETY DATA SHEET

#### 1. Identification

Product identifier 1-OCTYNE, 99%

Other means of identification

Product code 3425

**Recommended use** professional, scientific and technical activities: other professional, scientific and technical activities

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Company name** GFS Chemicals, Inc. **Address** P.O. Box 245

Powell OH 43065 US

**Telephone** Phone 740-881-5501

Toll Free 800-858-9682 Fax 740-881-5989

Website www.gfschemicals.com
E-mail service@gfschemicals.com

Emergency phone Emergency Assistance

number

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 2Health hazardsAspiration hazardCategory 1

**OSHA hazard(s)** Not classified.

**Label elements** 





Signal word Danger

**Hazard statement** Highly flammable liquid and vapor. May be fatal if swallowed and enters airways.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly

closed. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Wear protective gloves/eye

Chemtrec 800-424-9300

protection/face protection.

**Response** Eliminate all ignition sources if safe to do so. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. Do NOT induce vomiting. In case of fire: Use

appropriate media for extinction.

**Storage** Store in a well-ventilated place. Keep cool. Store locked up. **Disposal** Dispose of contents/container to an approved incineration plant.

Hazard(s) not otherwise

classified (HNOC)

Static accumulating flammable liquid

**Supplemental information** 

**Hazard statement** Static accumulating flammable liquid can become electrostatically charged even in bonded and

grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and

receiving equipment. These alone may be insufficient to remove static electricity.

Material name: 1-OCTYNE, 99%

3425 Version #: 01 Revision date: Issue date: July-01-2014 1 / 7

## 3. Composition/information on ingredients

#### **Substances**

**Hazardous components** 

Chemical name	Common name and synonyms	CAS number	%
1-OCTYNE		629-05-0	100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may

cause pulmonary edema and pneumonitis.

Most important

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special

treatment needed **General information**  Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Not available.

## 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may

be used for small fires only.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. By heating and fire, harmful vapors/gases may be formed. Material will float and may ignite on surface of water.

**Special protective equipment** and precautions for

firefighters

Fire-fighting

equipment/instructions

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and

consider the hazards of other involved materials. Move containers from fire area if you can do so without risk.

**Specific methods** 

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment.

SDS US 3425 Version #: 01 Revision date: Issue date: July-01-2014 2/7

Material name: 1-OCTYNE, 99%

## Methods and materials for containment and cleaning up

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

#### **Precautions for safe handling**

Vapors may form explosive mixtures with air. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code". DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in cool place. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Keep refrigerated. Store in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Store in a cool, dry place out of direct sunlight.

## 8. Exposure controls/personal protection

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**Biological limit values** No biological exposure limits noted for the ingredient(s). **Appropriate engineering** Explosion-proof general and local exhaust ventilation. controls

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear eye/face protection.

Skin protection

Hand protection Wear protective gloves.

Other Wear suitable protective clothing. Wear protective gloves. Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards

**General hygiene** considerations

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

**Appearance** Clear. **Physical state** Liquid. Form Liquid. Color Colorless. Odor Not available. **Odor threshold** Not available. pН Not available. Melting point/freezing point -112 °F (-80 °C)

Material name: 1-OCTYNE, 99% 3425 Version #: 01 Revision date: Issue date: July-01-2014 3/7 Initial boiling point and

boiling range

260.6 - 262.4 °F (127 - 128 °C)

bonning range

**Flash point** 62.60 °F (17.00 °C)

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit -

upper (%)

Not available.

appo. (70)

**Explosive limit - lower** 

Not available.

(%)

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure1.813 kPa at 25 °CVapor densityNot available.Relative densityNot available.Solubility(ies)ImmisciblePartition coefficientNot available.

(n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Density** 0.75 q/cm3

Flammability class Flammable IB estimated

Molecular formulaC8H14Molecular weight110.20Percent volatile100 %Specific gravity0.746

### 10. Stability and reactivity

**Reactivity** Not available.

**Chemical stability** Risk of explosion. Stable under recommended storage conditions.

**Possibility of hazardous** 

reactions

Hazardous polymerization does not occur.

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

**Incompatible materials** Oxidizing agents.

**Hazardous decomposition** 

products

May include oxides of carbon.

## 11. Toxicological information

### Information on likely routes of exposure

IngestionMay be fatal if swallowed and enters airways.InhalationMay be fatal if swallowed and enters airways.Skin contactDue to lack of data the classification is not possible.Eye contactDue to lack of data the classification is not possible.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

## Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways. The toxicological properties of this material have not

been fully investigated and its handling and use may be hazardous.

**Skin corrosion/irritation**Due to lack of data the classification is not possible. **Serious eye damage/eye**Due to lack of data the classification is not possible.

irritation

Material name: 1-OCTYNE, 99%

3425 Version #: 01 Revision date: Issue date: July-01-2014 4 / 7

Respiratory sensitizationDue to lack of data the classification is not possible.Skin sensitizationDue to lack of data the classification is not possible.Germ cell mutagenicityDue to lack of data the classification is not possible.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**Due to lack of data the classification is not possible. **Specific target organ toxicity**Due to lack of data the classification is not possible.

- single exposure

**Specific target organ toxicity** 

- repeated exposure

Due to lack of data the classification is not possible.

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 12. Ecological information

**Ecotoxicity** No ecotoxicity data noted for the ingredient(s).

**Persistence and degradability** No data is available on the degradability of this product.

Bioaccumulative potentialNot available.Mobility in soilNot available.Other adverse effectsNot available.

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Not available.

**Hazardous waste code** D001: Waste Flammable material with a flash point <140 F

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 14. Transport information

### **DOT**

**UN number** UN1993

**UN proper shipping name** Flammable liquids, n.o.s. (1-OCTYNE, 98%)

Transport hazard class(es) 3

**Subsidary class(es)** Not available.

Packing group II

**Special precautions for** Read safety instructions, SDS and emergency procedures before handling.

user

Labels required

3

Special provisions IB2, T7, TP1, TP8, TP28

Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

**IATA** 

**UN number** UN1993

**UN proper shipping name** Flammable liquid, n.o.s. (1-OCTYNE, 98%)

Transport hazard class(es) 3
Subsidary class(es) Packaging group II
Environmental hazards No

**Labels required** Not available.

**ERG Code** 3H

**Special precautions for** Not available.

user IMDG

UN number UN1993

**UN proper shipping name** FLAMMABLE LIQUID, N.O.S. (1-OCTYNE, 98%)

Material name: 1-OCTYNE, 99%

3425 Version #: 01 Revision date: Issue date: July-01-2014

5 / 7

Transport hazard class(es) 3 Subsidary class(es) **Packaging group** ΙΙ **Environmental hazards** 

> Marine pollutant No

Labels required Not available. **EmS** F-E, S-E Special precautions for Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

DOT



IATA; IMDG



## 15. Regulatory information

**US federal regulations** CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** No

hazardous substance

**SARA 311/312** No

**Hazardous chemical** 

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** Not regulated.

(SDWA)

Material name: 1-OCTYNE, 99% 3425 Version #: 01 Revision date: Issue date: July-01-2014 6/7

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Not listed

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

### **DEA Exempt Chemical Mixtures Code Number**

Not regulated.

**Food and Drug** Not regulated.

Administration (FDA)

**US state regulations** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

On inventory (yes/no)\*

Yes

#### **US. Massachusetts RTK - Substance List**

Not regulated.

### US. New Jersey Worker and Community Right-to-Know Act

**Inventory name** 

Not regulated.

### **US. Pennsylvania RTK - Hazardous Substances**

Not regulated.

#### **US. Rhode Island RTK**

Not regulated.

## **US. California Proposition 65**

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Australian Inventory of Chemical Substances (AICS)

Not listed.

#### **International Inventories**

Australia

Country(s) or region

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Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

## 16. Other information, including date of preparation or last revision

**Issue date** July-01-2014

Version # 01

**Further information** Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

> available. The information given is designed only as a quidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified

in the text.

**Revision Information** Product and Company Identification: Product and Company Identification

SDS US 3425 Version #: 01 Revision date: Issue date: July-01-2014 7/7

Material name: 1-OCTYNE, 99%