

## **SAFETY DATA SHEET**

1. Identification

Product identifier 3-UNDECYNE, 96%

Other means of identification

Product code 3368

**Recommended use** professional, scientific and technical activities: scientific research and development

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

**Manufacturer** 

**Company name**Address

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United States

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**Emergency phone** Emergency Assistance Chemtrec 800-424-9300

number

2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsAspiration hazardCategory 1

**Environmental hazards** Not classified. **OSHA defined hazards** Not classified.

**Label elements** 



Signal word Danger

**Hazard statement** Combustible liquid. May be fatal if swallowed and enters airways.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wear protective gloves/eye

protection/face protection.

**Response** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting.

None known.

**Storage** Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise

classified (HNOC)

**Supplemental information** None.

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	<b>CAS</b> number	%
3-UNDECYNE		60212-30-8	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.

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Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

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

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

Most important

symptoms/effects, acute and

delayed

**Indication of immediate** medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause

Symptoms may be delayed.

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

protect themselves.

temporary irritation.

## 5. Fire-fighting measures

Suitable extinguishing media

**Unsuitable extinguishing** media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for

mixtures. During fire, gases hazardous to health may be formed. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/aii

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

firefighters

Fire fighting equipment/instructions

so without risk.

**Specific methods** General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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.

Large Spills: Stop the flow of material, if this is without risk. 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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

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

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** 

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

#### 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 controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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### Individual protection measures, such as personal protective equipment

**Eye/face protection** Face shield is recommended. Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing

and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** Clear. **Physical state** Liquid. **Form** Liquid. Color Colorless. Odor Not available. **Odor threshold** Not available. Not available. pН Melting point/freezing point Not available.

Initial boiling point and

boiling range

176 °F (80 °C) at 10 mm Hg

Flash point  $> 149.0 \, ^{\circ}\text{F} \, (> 65.0 \, ^{\circ}\text{C})$ 

Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

**%**)

upper (%)

**Explosive limit - lower** 

Flammability limit -

(%)

Not available.

Not available.

**Explosive limit - upper** 

(%)

Not available.

Vapor pressure0.07 kPa at 25 °CVapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.
(n-octanol/water)

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

Other information

**Density** 0.77 g/cm3

Flammability class Combustible IIIA estimated

Molecular formulaC11H20Molecular weight152.28 g/mol

#### 10. Stability and reactivity

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**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

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**Conditions to avoid** Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash

point. Contact with incompatible materials.

**Incompatible materials** 

**Hazardous decomposition** 

products

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular

weight hydrocarbons.

Strong oxidizing agents.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. Skin contact No adverse effects due to skin contact are expected. **Eye contact** Direct contact with eyes may cause temporary irritation.

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious Ingestion

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics Aspiration may cause pulmonary edema and pneumonitis.

#### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

#### Respiratory or skin sensitization

**Respiratory sensitization** Not available

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### **US OSHA Hazard Categories (1)**

Not regulated.

## **US OSHA Hazard Categories (10)**

Not regulated.

## **US OSHA Hazard Categories (2)**

Not regulated.

## **US OSHA Hazard Categories (3)**

Not regulated. **US OSHA Hazard Categories (4)** 

# Not regulated.

## **US OSHA Hazard Categories (5)**

Not regulated.

## **US OSHA Hazard Categories (6)** Not regulated.

## **US OSHA Hazard Categories (7)**

Not regulated.

#### **US OSHA Hazard Categories (8)**

Not regulated.

## **US OSHA Hazard Categories (9)**

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

Not classified.

- single exposure

Specific target organ toxicity Not classified.

- repeated exposure

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

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## 12. Ecological information

**Ecotoxicity**The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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

**Bioaccumulative potential**No data available. **Mobility in soil**No data available.

**Other adverse effects**No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

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

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

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

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not established.

Annex II of MARPOL 73/78

and the IBC Code

#### 15. Regulatory information

**US federal regulations**This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard,

29 CFR 1910.1200.

One or more components are not listed on TSCA.

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

Not regulated

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

Not listed.

**SARA 304 Emergency release notification** 

Not regulated.

**US OSHA Hazard Categories (1)** 

Not regulated.

**US OSHA Hazard Categories (2)** 

Not regulated.

**US OSHA Hazard Categories (3)** 

Not regulated.

**US OSHA Hazard Categories (4)** 

Not regulated.

**US OSHA Hazard Categories (5)** 

Not regulated.

**US OSHA Hazard Categories (6)** 

Not regulated.

**US OSHA Hazard Categories (7)** 

Not regulated.

**US OSHA Hazard Categories (8)** 

Not regulated.

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### **US OSHA Hazard Categories (9)**

Not regulated.

#### **US OSHA Hazard Categories (10)**

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

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

#### **SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312** Yes

**Hazardous chemical** 

#### SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **US state regulations**

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

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

Not regulated.

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

Not listed.

#### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

## **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

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.

## **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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**Disclaimer**GFS Chemicals, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the

user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

**Revision information** Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

GHS: Classification