

SAFETY DATA SHEET

1. Identification

| Product identifier | 1-HEPTANOIC ACID, 97% | |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--|
| Other means of identification | | |
| Product code | 3476 | |
| Recommended use | professional, scientific and technical activities: other professional, scientific and technical activities | |
| Recommended restrictions | None known. | |
| Manufacturer/Importer/Supplier/Distributor information | | |
| Manufacturer | | |

| Company name Address | GFS Chemicals, Inc. P.O. Box 245 Powell, OH 43065 | |
|---------------------------|---------------------------------------------------------|-----------------------|
| | United States | |
| 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 number | Emergency Assistance | Chemtrec 800-424-9300 |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|-----------------------|-----------------------------------|------------|
| Health hazards | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/eye irritation | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |

Label elements



| Signal word | Danger |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statement | Causes severe skin burns and eye damage. Causes serious eye damage. Harmful if inhaled. |
| Precautionary statement | |
| Prevention | Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | Immediately call a POISON CENTER or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Wash contaminated clothing before reuse. |
| Storage | Store locked up. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | None. |

3. Composition/information on ingredients

Substances

| Chemical name | Common name and synonyms | CAS number | % |
|------------------|--------------------------|------------|-----|
| 1-HEPTANOIC ACID | | 111-14-8 | 100 |

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

| 4. First-aid measures | |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell. |
| Skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse. |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately. |
| 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. |
| Most important symptoms/effects, acute and delayed | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| | |

5. Fire-fighting measures

| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |
| Specific hazards arising from the chemical | During fire, gases hazardous to health may be formed. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| General fire hazards | No unusual fire or explosion hazards noted. |

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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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 | 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. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. |
| | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| Environmental precautions | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
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8. Exposure controls/personal protection

| 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. Eye wash facilities and emergency shower must be available when handling this product. | |
| Individual protection measures, such as personal protective equipment | | |
| Eye/face protection | Wear safety glasses with side shields (or goggles). | |
| Skin protection Hand protection | Wear appropriate chemical resistant gloves. | |
| Other | Wear appropriate chemical resistant clothing. | |
| Respiratory protection | If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided. | |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. | |
| General hygiene considerations | 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

| 9. Physical and chemical | properties |
|--------------------------------------------|-------------------------------|
| Appearance | Clear. |
| Physical state | Liquid. |
| Form | Liquid. |
| Color | Colourless to light yellow. |
| Odor | Not available. |
| Odor threshold | Not available. |
| рН | Not available. |
| Melting point/freezing point | 19.09 °F (-7.17 °C) |
| Initial boiling point and boiling range | 431.96 °F (222.2 °C) |
| Flash point | 235.4 °F (113.0 °C) |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or e | xplosive limits |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 0.001 kPa at 25 °C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | |
| Solubility (water) | 2.8 g/l at 25 °C |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 0.92 g/cm3 estimated at 20 °C |
| Dynamic viscosity | 0.82 mPa.s (248 °F (120 °C)) |
| | |

| Flammability class | Combustible IIIB estimated |
|--------------------|----------------------------|
| Molecular formula | C7H14O2 |
| Molecular weight | 130.19 g/mol |
| Specific gravity | 0.92 at 20 °C |

10. Stability and reactivity

| 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 reactions | Hazardous polymerization does not occur. |
| Conditions to avoid | Contact with incompatible materials. |
| Incompatible materials | Strong oxidizing agents. |
| Hazardous decomposition products | Carbon oxides. |

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Harmful if inhaled. |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | Causes severe skin burns. |
| Eye contact | Causes serious eye damage. |
| Ingestion | Causes digestive tract burns. |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |

Information on toxicological effects

| Acute toxicity | Harmful if inhaled. | | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------|--|
| Product | Species | Test Results | |
| 1-HEPTANOIC ACID (CAS 111-14- | 8) | | |
| <u>Acute</u> | | | |
| Dermal | | | |
| LD50 | Rabbit | > 5000 mg/kg | |
| Inhalation | | | |
| LD50 | Rat | > 4.6 mg/l | |
| Oral | | | |
| LD50 | Mouse | 6400 mg/kg | |
| | Rat | 7000 mg/kg | |
| Other | | | |
| LD50 | Mouse | 1200 mg/kg | |
| | | | |
| * Estimates for product may b | e based on additional component c | lata not shown. | |
| Skin corrosion/irritation | Causes severe skin burns and eye damage. | | |
| Serious eye damage/eye irritation | Causes serious eye damage. | | |
| Respiratory or skin sensitization | on | | |
| 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. | | |
| Carcinogenicity | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. | | |
| IARC Monographs. Overal | Evaluation of Carcinogenicity | | |
| Not listed. | | | |
| US OSHA Hazard Categorie | es (1) | | |
| Not regulated. | | | |
| US OSHA Hazard Categorie | es (10) | | |
| Not regulated. | | | |
| US OSHA Hazard Categorie | es (2) | | |
| Not regulated. | | | |
| Material name: 1-HEPTANOIC ACID, 9 | 07% | | |

| US OSHA Hazard Categorie | es (3) |
|-------------------------------------------------------|------------------------------------------------------------------------------|
| Not regulated. | |
| US OSHA Hazard Categorie | es (4) |
| Not regulated. | |
| US OSHA Hazard Categorie | as (5) |
| Not regulated. | |
| US OSHA Hazard Categorie | es (6) |
| Not regulated. | |
| US OSHA Hazard Categorie | as (7) |
| Not regulated. | |
| US OSHA Hazard Categorie | es (8) |
| Not regulated. | |
| US OSHA Hazard Categorie | es (9) |
| Not regulated. | |
| US. National Toxicology Pro | ogram (NTP) Report on Carcinogens |
| Not listed. | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
| Specific target organ toxicity - single exposure | Not classified. |
| Specific target organ toxicity - repeated exposure | Not classified. |
| Aspiration hazard | Not available. |
| | |

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 | Not 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

| UN number | UN3265 |
|----------------------------|-------------------------------------------------------------------------|
| UN proper shipping name | Corrosive liquid, acidic, organic, n.o.s. (1-HEPTANOIC ACID) |
| Transport hazard class(es) | |
| Class | 8 |
| Subsidiary risk | - |
| Label(s) | 8 |
| Packing group | III |
| Special precautions for | Read safety instructions, SDS and emergency procedures before handling. |
| user | |
| Special provisions | IB3, T7, TP1, TP28 |
| Packaging exceptions | 154 |
| Packaging non bulk | 203 |
| Packaging bulk | 241 |

ΙΑΤΑ

| UN number | UN3265 |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| UN proper shipping name | Corrosive liquid, acidic, organic, n.o.s. (1-HEPTANOIC ACID) |
| Transport hazard class(es) | |
| Class | 8 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | No. |
| ERG Code | 8L |
| Special precautions for | Read safety instructions, SDS and emergency procedures before handling. |
| user | |
| Other information | |
| Passenger and cargo | Allowed with restrictions. |
| aircraft | |
| Cargo aircraft only | Allowed with restrictions. |
| IMDG | |
| UN number | UN3265 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (1-HEPTANOIC ACID) |
| Transport hazard class(es) | |
| Class | 8 |
| Subsidiary risk | - |
| Packing group | III |
| Environmental hazards | |
| Marine pollutant | No. |
| EmS | F-A, S-B |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not established. |

DOT



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

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 Categ | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 05 05 IA Hazaru Categ | ories (1) | |
| Not regulated. | | |
| US OSHA Hazard Categ | ories (2) | |
| Not regulated. US OSHA Hazard Categ | ories (3) | |
| Not regulated. | unes (5) | |
| US OSHA Hazard Categ | ories (4) | |
| Not regulated. | | |
| US OSHA Hazard Categ | ories (5) | |
| Not regulated. | | |
| US OSHA Hazard Categ | ories (6) | |
| Not regulated. US OSHA Hazard Categ | ories (7) | |
| Not regulated. | | |
| US OSHA Hazard Categ | ories (8) | |
| Not regulated. | | |
| US OSHA Hazard Categ | ories (9) | |
| Not regulated. | | |
| US OSHA Hazard Categ Not regulated. | ones (10) | |
| - | d Reauthorization Act of 1986 (SARA) | |
| Hazard categories | Immediate Hazard - Yes | |
| ······································ | Delayed Hazard - No | |
| | Fire Hazard - No | |
| | Pressure Hazard - No Reactivity Hazard - No | |
| SARA 302 Extremely ha | - | |
| Not listed. | | |
| SARA 311/312 Hazardous chemical | Yes | |
| SARA 313 (TRI reportir Not regulated. | ng) | |
| | | |
| Other federal regulations | | |
| - | tion 112 Hazardous Air Pollutants (HAPs) List | |
| - | tion 112 Hazardous Air Pollutants (HAPs) List | |
| Clean Air Act (CAA) Sec Not regulated. | tion 112 Hazardous Air Pollutants (HAPs) List tion 112(r) Accidental Release Prevention (40 CFR 68.130) | |
| Clean Air Act (CAA) Sec Not regulated. | | |
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| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| 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) | Yes |
| 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 |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 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).

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

| Issue date | July-15-2016 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version # | 01 |
| 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 |