DUDA ENERGY LLC

# Safety Data Sheet
# ACETONE DE

## SECTION 1: Identification

### 1.1 Product identifier

| | |
|---|---|
| Product name | ACETONE DE |
| Product number | Unavailable |
| Brand | Unavailable |
| Substance name | ACETONE |
| EC no. | 200-662-2 |
| CAS no. | 67-64-1 |
| Index no. | 606-001-00-8 |

### 1.2 Other means of identification
Unavailable

### 1.3 Recommended use of the chemical and restrictions on use
This compound is used in the manufacture of smokeless powder, paints, varnishes, lacquers, organic chemicals, pharmaceuticals, sealants, adhesives, methyl isobutyl ketone, mesityl oxide, acetic acid (ketene process), diacetone alcohol, chloroform, iodoform, bromoform, explosives, airplane dopes, rayon, photographic films, isoprene, methyl isobutyl carbinol, methyl methacrylate and bisphenol A. It is used as as solvent for cellulose acetate, nitrocellu- lose, acetylene, fats, oils, waxes, resins, rubber, plastics, rubber cements, pharmaceuticals, potassium iodide and permanganate. It is also used in storing acetylene gas, in purifying paraffin, in hardening and dehydrating tissues and to clean and dry parts of precision equipment. It is used in extraction of various principles from animal and plant substances, as a delusterant for cellulose acetate fibers, in specification testing of vulcanized rubber pro- ducts, as a cosmetic ingredient, as a dye intermediate and in paint and varnish removers.

### 1.4 Supplier's details

| | |
|---|---|
| Name | Duda Energy LLC |
| Address | 1112 Brooks St.<br>Decatur, AL 35601<br>USA |
| Telephone | 256.340.4866 |
| Fax | Unavailable |
| email | Unavailable |

### 1.5 Emergency phone number(s)

800.255.3924 (Chemtel)

## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

**GHS classification in accordance with: UN GHS rev. 5**
- Eye damage/irritation (chapter 3.3), Cat. 2A
- Flammable liquids (chapter 2.6), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 3
- Specific target organ toxicity, repeated exposure (chapter 3.9), Cat. 2
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3

### 2.2 GHS label elements, including precautionary statements

**Pictogram**

| | |
|---|---|
| **Signal word** | **Danger** |
| **Hazard statement(s)** | |
| H225 | Highly flammable liquid and vapor |
| H316 | Causes mild skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| **Precautionary statement(s)** | |
| P210 | Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/…/equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash … thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |

| | |
|---|---|
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor/... if you feel unwell. |
| P314 | Get medical advice/attention if you feel unwell. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P370+P378 | In case of fire: Use … to extinguish. |
| P403+P233 | Store in a well ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to … |

### 2.3 Other hazards which do not result in classification

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.

**Statement regarding ingredients of unknown toxicity**

Unavailable

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| | |
|---|---|
| Substance name | ACETONE |
| EC no. | 200-662-2 |
| CAS no. | 67-64-1 |
| Index no. | 606-001-00-8 |
| Formula | C3H6O |
| Molecular weight | 58.08 |
| Other names / synonyms | UN 1090; ACETONE |
| Impurities and stabilizing additives | None |

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

| | |
|---|---|
| General advice | Remove contaminated clothing immediately, wash before reuse. Be sure medical personnel/first responders are aware of any potential risk of material exposure and take precautions to protect themselves. |
| If inhaled | Remove individual to fresh air and keep at rest in a comfortable breathing position. If symptoms develop, call a Poison Control Center. |
| In case of skin contact | After removing all contaminated clothing, rinse skin with water (or shower). Get medical attention if irritation develops or persists. |

| | |
|---|---|
| In case of eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Get medical attention if irritation develops and persists. |
| If swallowed | Do not induce vomiting. If conscious and able, give 1 or 2 glasses of water to dilute the chemical and call a poison control center or hospital. |

Personal protective equipment for first-aid responders

Unavailable

**4.2 Most important symptoms/effects, acute and delayed**

Difficulty breathing, headache, dizziness, tiredness, nausea, and vomiting. May cause pulmonary edema.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

## SECTION 5: Fire-fighting measures

**5.1 Suitable extinguishing media**

CO2, dry sand, water spray, alcohol-resistant foam, dry chemical.

**5.2 Specific hazards arising from the chemical**

Hazardous gases (Carbon oxides) may form under fire conditions.

**5.3 Special protective actions for fire-fighters**

Use SCBA and full protective gear.

**Further information**

Cool unopened containers with water spray.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use proper PPE. Ensure adequate ventilation and do not inhale vapors, mist, or gas. Remove all sources of ignition. Beware that accumulation of vapors may reach explosive concentrations, especially in low areas.

**6.2 Environmental precautions**

Prevent further spillage or leakage if safe to do so. Do not let material enter into drains, sewers, ditches, water-ways, or onto the ground.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

**Reference to other sections**

Section 8 (PPE), Section 13 (Disposal)

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Specific end use(s)**

Unknown other than stated in Section 1

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**1. Acetone (CAS: 67-64-1)**
REL (Inhalation): 250 ppm (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

**2. Acetone (CAS: 67-64-1)**
PEL (Inhalation): 500 ppm, (ST) 750 ppm, (C) 3000 ppm (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov

**3. Acetone (CAS: 67-64-1)**
PEL (Inhalation): 2400 mg/m3 (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

**4. Acetone (CAS: 67-64-1)**
PEL (Inhalation): 1000 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

### 8.2 Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

**Body protection**

Wear impervious clothing/flame retardant antistatic protective clothing.

**Respiratory protection**

NIOSH-approved full face respirator with appropriate organic vapor cartridges. Where a full face is not available, splash-resistant goggles and a half face mask with organic vapor cartridges.

**Thermal hazards**
Data unavailable

**Environmental exposure controls**
Use good industrial hygiene and safe work practices when handling this material.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance/form (physical state, color, etc.) | Liquid; |
| Odor | Sweet, fruity |
| Odor threshold | 100 ppm |
| pH | Data unavailable |
| Melting point/freezing point | -94 |
| Initial boiling point and boiling range | 56 |
| Flash point | -18 |
| Evaporation rate | <1 |
| Flammability (solid, gas) | Flammable |
| Upper/lower flammability limits | See UEL/LEL |
| Upper/lower explosive limits | UEL: 12.8%<br>LEL: 2.6% |
| Vapor pressure | 180 mm Hg @ 20 °C; 270 mm Hg @ 30 °C |
| Vapor density | 2.0 |
| Relative density | 0.791 @ 20 °C |
| Solubility(ies) | Data unavailable |
| Partition coefficient: n-octanol/water | (octanol) -0.24 |
| Auto-ignition temperature | 465 °C |
| Decomposition temperature | Data unavailable |
| Viscosity | Data unavailable |
| Explosive properties | Data unavailable |
| Oxidizing properties | Data unavailable |

**Other safety information**
No data available

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
Non-reactive under normal conditions.

**10.2 Chemical stability**
Stable under normal conditions.

**10.3 Possibility of hazardous reactions**
Hazardous polymerization does not occur.

**10.4 Conditions to avoid**
Avoid heat, sparks, open flames, and other ignition sources. Avoid temperatures exceeding the flash point. Avoid contact with incompatible materials.

**10.5 Incompatible materials**
Acids

**10.6 Hazardous decomposition products**
None known

## SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**
LD50
Dermal
Rabbit: 20000 mg/kg, 20 ml/kg
Oral
Mouse: 3000 mg/kg
Rabbit: 5340 mg/kg
Rat: 5800 mg/kg

LC50
Inhalation
Rat: 76 mg/l (4hrs), 50.1 mg/l (8hrs)

**Skin corrosion/irritation**
Prolonged skin contact may cause temporary irritation.

**Serious eye damage/irritation**
Causes serious eye irritation.

**Respiratory or skin sensitization**
Not expected to cause respiratory or skin sensitization.

**Germ cell mutagenicity**
No data available indicates material is mutagenic or genotoxic.

**Carcinogenicity**
Not considered a carcinogen by IARC, ACGIH, NTP, or OSHA.

**Reproductive toxicity**
Not expected to cause reproductive or developmental effects.

**Summary of evaluation of the CMR properties**
Unavailable

**STOT-single exposure**
May cause drowsiness and dizziness.

**STOT-repeated exposure**
Not classified.

**Aspiration hazard**
Not an aspiration hazard.

**Additional information**
No further information available.

## SECTION 12: Ecological information

**Toxicity**
[ACETONE CAS# 67-64-1]
Aquatic
Crustacea - Water flea (Daphnia magna) 21.6-23.9 mg/l (48hrs)
Fish - Rainbow trout (Oncorhynchus mykiss) 4740-6330 mg/l (96hrs)

**Persistence and degradability**
Data unavailable

**Bioaccumulative potential**
log Kow: -0.24

**Mobility in soil**
Data unavailable

**Results of PBT and vPvB assessment**
Data unavailable

**Other adverse effects**
None other.

## SECTION 13: Disposal considerations

**Disposal of the product**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Disposal of contaminated packaging**
When emptied, contaminated packaging should always be handled according to labelled warnings. Emptied containers may still pose the same environmental or health risks as the material which contaminates them. Packaging and containers should be disposed of in accordance with all applicable laws and regulations.

**Waste treatment**
All waste should be disposed of in accordance with all applicable laws and regulations.

**Sewage disposal**
Data unavailable

**Other disposal recommendations**
None other.

## SECTION 14: Transport information

**DOT (US)**
UN Number: UN1090
Class: 3
Packing Group: II
Proper Shipping Name: Acetone

**IMDG**
UN Number: UN1090
Class: 3
Packing Group: II
EMS Number: F-E, S-D
Proper Shipping Name: ACETONE

**IATA**
UN Number: UN1090
Class: 3
Packing Group: II
Proper Shipping Name: Acetone

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

**Pennsylvania Right To Know Components**
Chemical name: 2-Propanone
CAS number: 67-64-1

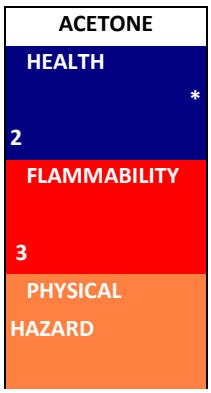
**New Jersey Right To Know Components**
Common name: ACETONE
CAS number: 67-64-1

**Massachusetts Right To Know Components**
Chemical name: Acetone
CAS number: 67-64-1

### 15.2 Chemical Safety Assessment

Unavailable

**HMIS Rating**



| PERSONAL PROTECTION |
| --- |
| |

**NFPA Rating**


## SECTION 16: Other information

**16.1 Further information/disclaimer**

The information provided in this Safety Data Sheet is correct to the best of Duda Energy LLC's knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance 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. This Safety Data Sheet only contains information relating to safety and does not replace any product information or product specification. Please note, the content may be changed, corrected, or deleted at any time without notice and may not always necessarily reflect the most current data. Duda Energy LLC will assume no responsiblity for any trouble or failure caused by the errors in the information provided, nor any damage associated with the usage of the information.

**16.2 Preparation information**

Version: 2
Revised: 04-20-2017