

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 578.60

Revision Date: September 22, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 3-Pentanone

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces. No smoking (P210).

Hazard class: Specific target organ toxicity, single exposure; respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing mist, vapors or spray (P261).

Hazard class: Specific target organ toxicity, single exposure; Narcotic effects (Category 3). May cause drowsiness or dizziness (H336).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name                                                                     | CAS Number | Formula                                                           | Formula Weight | Concentration |
|------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------|----------------|---------------|
| 3-Pentanone                                                                        | 96-22-0    | CH <sub>3</sub> CH <sub>2</sub> COCH <sub>2</sub> CH <sub>3</sub> | 86.132         |               |
| Synonyms: Diethyl ketone; DEK; Dimethylacetone, Ethyl ketone, Metacetone, Propione |            |                                                                   |                |               |

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

**If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Class IB flammable liquid.

Flash point: 13 °C Flammable limits: Upper 7.7% Lower: 1.6% Autoignition Temperature: 450 °C

When heated to decomposition, may emit toxic fumes.

**In case of fire:** Use tri-class dry chemical fire extinguisher (P370+P378).

NFPA CODE

H-1

F-3

R-0

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons. Store in a cool, dry place. Keep container tightly closed (P233). Keep cool (P235). Ground or bond container and receiving equipment (P240). Use explosion-proof electrical and ventilating equipment (P241). Use only non-sparking tools (P242). Take precautionary measures against static discharge (P243). Use only in a hood or in a well-ventilated area (P271).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling. Use only in a hood or in a well-ventilated area (P271).

Exposure guidelines: TLV 200 ppm STEL 300 ppm (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Clear, colorless liquid. Acetone-like odor.

Slightly soluble in cold water. Miscible with alcohol and ether.

Boiling point: 102 °C

Melting point: -40 °C

Specific gravity: 0.81

Vapor density: 3

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid heat, sunlight, and ignition sources. Reacts with hydrogen peroxide and strong acids, as well as nitric acid, oxidizing agents, strong bases, and reducing agents.

Shelf life: Fair, store in a cool, dry place.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Eye, skin, mucous membrane, & respiratory tract irritant. May cause narcotic effects. Readily absorbed through skin.

Chronic effects: Asthma-like symptoms, dermatitis, CNS depression.

Target organs: CNS, skin, respiratory system.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

ORL-RAT LD<sub>50</sub>: 2140 mg/kg

IHL-RAT LCL<sub>0</sub>: 8000 ppm/4H

SKN-RBT LD<sub>50</sub>: 20 mL/kg

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**SECTION 12 — ECOLOGICAL INFORMATION**

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LC<sub>50</sub> fathead minnow: 1470-1600 mg/L/96H

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #18b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Diethyl ketone. Hazard class: 3. UN number: UN1156.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA listed.

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**SECTION 16 — OTHER INFORMATION**

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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