HOME OIL COMPANY, INC.
3511 N. OHIO
P.O. BOX 2609
WICHITA, KANSAS 67201-2609
316-838-4663

Issued: 1/30/92

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL identity
Product Code and Name: ACETONE
Chemical Name and/or Family or Description: Ketone

Manufacturer's Name and Address:
Home Oil Company, Inc.
P. O. Box 2609, Wichita, KS 67201-2609

Telephone Numbers:
Transportation Emergency: CHEMTREC: 1-800-424-9300
Health Emergency: Home Oil: 316-838-4663
General Info: Home Oil: 316-838-4663

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
<th>OTHER</th>
<th>NONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No.</td>
<td>Exposure Limit</td>
<td>Range in %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-64-1</td>
<td>750 ppm TWA-OSHA</td>
<td>100.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>750 ppm TWA-ACGIH</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1000 ppm STEL-ACGIH</td>
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</tbody>
</table>

Product and/or Component(s) Carcinogenic According to: NONE

Composition:
- Chemical/Common Name: Acetone

Product is hazardous according to OSHA (1810,1200).
- Component(s) is hazardous according to OSHA or one or more state Right-to-Know laws.

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW
Appearance and Odor: clear, colorless liquid

WARNING STATEMENT
DANGER!
EXTREMELY FLAMMABLE LIQUID AND VAPOR
HARMFUL IF INHALED
MAY CAUSE DIZZINESS AND DROWSINESS
MAY CAUSE EYE AND SKIN IRRITATION
ASPIRATION HAZARD IF SWALLOWED -- CAN ENTER LUNGS AND CAUSE DAMAGE

HMIS
Health: 2 Reactivity: 0 Health: 1 Reactivity: 0 Special: - Special: -
Flammability: 4 Special: - Flammability: 3 Special: -

POTENTIAL HEALTH EFFECTS
Primary Route of Exposure: EYE SKIN INHALATION INGESTION

N.D. - Not Determined  N.A. - Not Applicable  N.T. - Not Tested
< - Less Than  > - Greater Than
3. HAZARD IDENTIFICATION (CONT)

Effects of Overexposure

Acute:
- Eyes: May cause irritation, experienced as discomfort, and seen as excess redness and swelling of the eye.
- Skin: No adverse effects expected from absorption of material through the skin.
- Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Inhalation:
- Vapors or mist may cause irritation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination, and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.

Ingestion:
- If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in lung damage.

Sensitization Properties:
- Unknown.

Chronic:
- Repeated skin contact may cause a persistent irritation or dermatitis.

Medical Conditions Aggravated by Exposure:
- Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:
- None

4. FIRST AID MEASURES

Eyes:
- Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:
- Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:
- If swallowed, get immediate medical attention. ONLY induce vomiting as directed by a doctor. Never give anything by mouth to an unconscious or convulsing person.

Inhalation:
- Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention.

Other Instructions:
- NOTE TO PHYSICIAN: Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.
S. FIRE-FIGHTING MEASURES

Ignition Temp. Degrees F.: N.D.  
Flammable Limits (% Lower: 3.8.  
Flash Point Degrees F. (Method): -4 F.  
Upper: 128.

Recommended Fire Extinguishing Agents And Special Procedures:  
According to NFPA Guide, use dry chemical, foam, or carbon dioxide. Water may be ineffective on flames, but should be used to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop the leak.

Unusual or Explosive Hazards:  
Danger! Extremely flammable materials may release vapors that travel a considerable distance to a source ignition and flash back. Containers may explode in a fire. Do not expose to heat, sparks, flame, static, or other sources of ignition. When handling, use non-sparking tool, ground and bond all containers.

Explosive air-vapor mixtures may form.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills Call: CHEMTREC (800) 424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:  
Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapor. Wear self-contained breathing apparatus. Avoid contact with skin, eyes or clothing. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Contain spill if possible. Remove with inert absorbent. Prevent entry into sewers and waterways.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling and Storage:  
Transport, handle, and store in accordance with OSHA Regulation 1910.106 and applicable DOT Regulations. Ground and bond shipping container, transfer line, and receiving container. Use spark-proof tools. Keep away from heat, sparks, flame and other sources of ignition. Material may be at elevated temperatures and/or pressures. Exercise due care when opening bleders and sampling ports.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)  
Eye/Face Protection:  
Avoid eye contact. Chemical type goggles should be worn. Do not wear contact lenses.

Skin Protection:  
Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned at least once a week.

Respiratory Protection:  
Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, use respirator approved by MSHA or NIOSH as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces. See below for applicable permissible concentrations.

N.D. - Not Determined  N.A. - Not Applicable  N.T. - Not Tested  
< - Less Than  > - Greater Than
8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT)

Ventilation:
Adequate to meet occupational exposure limits. (See below)

Exposure Limit for Total Product:
750 ppm (1,780 mg/m3) TWA (ACGIH)
750 ppm TWA (OSHA)
1000 ppm STEL (OSHA/ACGIH)

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: clear, colorless liquid
Boiling Point (Degrees F.): 134
Specific Gravity: 0.781 (H2O=1)
PH of undiluted product: N.A.
Vapor Pressure: 157±20 mmHg
Viscosity: N.D.
Vapor Density: 2.0
Percent VOC: 100
Air: N.O.
Solubility in Water: sol.

10. STABILITY AND REACTIVITY

This Material Reacts Violently With: (If others is checked below, see comments for details)
Air: X
Water: No
Heat: Strong Oxidizers
Others: None

None

Products Evolved When Subjected to Heat or Combustion:
Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

Hazardous Polymerization:

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)
Median Lethal Dose (LD50 LC50) (Species)
Oral: 8.3-10.7 g/kg (rat); practically non-toxic
Inhalation: N.O.
Dermal: 20 g/kg (rabbit); practically non-toxic
Irritation Index, Estimation of Irritation (Species)
Skin: believed to be 0.5-3.0/8.0 (rabbit); slightly irritating
Eyes: believed to be 25-50/110 (rabbit); moderately irritating
Other: Sensitization: N.O.

12. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS
This product (as presently constituted) has the RCRA characteristic of acetonitrile, and, if discarded in its present form, would have the hazardous waste number of U002. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc., may change the classification to non-hazardous, or hazardous for reasons other than, or in addition to, acetonitrile.
12. DISPOSAL CONSIDERATIONS (CONT)

REMARKS
None

13. TRANSPORT INFORMATION

TRANSPORTATION
DOT: PROPER SHIPPING NAME: Acetone

HAZARD CLASS: Flammable liquid, UN 1090 RO
IDENTIFICATION NUMBER: N.D.
LABEL REQUIRED: N.D.

IMDG: PROPER SHIPPING NAME: N.D.
IATA: PROPER SHIPPING NAME: N.D.
TOG: PROPER SHIPPING NAME: N.D.

14. REGULATORY INFORMATION

A. SARA TITLE III
Title III Section 302/304 Extremely Hazardous Substance:

<table>
<thead>
<tr>
<th>Component</th>
<th>GAS No.</th>
<th>Percent</th>
<th>RO (lbs)</th>
<th>TPD (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>87641</td>
<td>100.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
</tbody>
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CERCLA Section 102(a) Hazardous Substance

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Title III Section 311 Hazard Categorization
Acute Chronic Fire Pressure Reactive Not Applicable

Title III Section 313 Toxic Chemicals

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B. WHMIS CLASSIFICATION
NA

C. MICHIGAN CRITICAL MATERIALS
No critical materials present

15. OTHER INFORMATION

None

HOME OIL COMPANY, INC. BELIEVES THAT THE INFORMATION CONTAINED IN THIS MSDS IS CORRECT AS OF THIS DATE. HOWEVER, BECAUSE THE MATERIAL MAY BE USED UNDER CONDITIONS OVER WHICH HOME OIL HAS NO CONTROL OR IN WAYS WE CANNOT ANTICIPATE, WE GIVE NO WARRANTY, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION AND ASSUME NO RESPONSIBILITY FOR ANY DAMAGE TO PERSON, PROPERTY OR BUSINESS ARISING FROM SUCH USE. HOWEVER, IT IS THE RESPONSIBILITY OF THE PURCHASER OR USER OF THIS MATERIAL TO ENSURE THAT IT IS PROPERLY AND SAFELY USED.

N.D. - Not Determined
N.A. - Not Applicable
< - Less Than
> - Greater Than
N.T. - Not Tested
Inquiries regarding MSDS should be directed to:
Home Oil Company, Inc.
P. O. Box 2609
3511 N. Ohio
Wichita, KS 67201-2609

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL
ACETONE

16. PRODUCT LABEL

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

ACETONE

WARNING STATEMENT

DANGER:
EXTREMELY FLAMMABLE LIQUID AND VAPOR
HARMFUL IF INHALED
MAY CAUSE DIZZINESS AND DROWSINESS
MAY CAUSE EYE AND SKIN IRRITATION
ASPIRATION HAZARD IF SWALLOWED -- CAN ENTER LUNGS AND CAUSE DAMAGE

PRECAUTIONARY MEASURES

KEEP AWAY FROM HEAT, SPARKS AND FLAME
AVOID BREATHING MIST OR VAPOR
AVOID CONTACT WITH EYES AND PROLONGED CONTACT WITH SKIN
KEEP CONTAINER CLOSED
USE WITH ADEQUATE VENTILATION
WASH THROUGHOUT AFTER HANDLING

FIRST AID

INGESTION:
If swallowed, get immediate medical attention. ONLY induce vomiting as directed by a doctor. Never give anything by mouth to an unconscious or convulsing person.

INHALATION:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention.

EYE CONTACT:
Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

SKIN CONTACT:
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

NOTE TO PHYSICIAN:
Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

FIRE
In case of fire, use foam, dry chemical, or CO2. Use water spray to keep containers cool.

Chemical/Common Name
- Acetone

CAS No. Range in %
- 67-64-1 100.00

Product is hazardous according to OSHA (1910.1200).

Component(s) is hazardous according to OSHA or one or more state Right-to-Know laws.

MMIS
Health 2 Reactivity 0
Flammability 4 Special -

DOT Proper Shipping Name: Acetone
DOT Hazardous Class: Flammable Liquid, UN 1090 R0

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.
Manufacturer's Name: Home Oil Company, Inc.
P. O. Box 2609, Wichita, KS 67201-2609

TRANSPORTATION EMERGENCY CHEMTREC
1-800-424-9300

HEALTH EMERGENCY Home Oil
316-838-4663