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MATERIAL IDENTIFICATION

CONOSOL C-140 Charcoal Lighter  
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MSDS NUMBER : CSPI0140

CONOSOL is a pending trademark of Conoco.

Revision Date : 04-Oct-90  
Date Printed : 21-Nov-90

MANUFACTURER/DISTRIBUTOR

Conoco Inc.  
P.O. Box 2197  
Houston, TX 77252

PHONE NUMBERS

GENERAL INFORMATION : 1-(713)293-5550  
TRANSPORT EMERGENCY : 1-(800)424-9300  
MEDICAL EMERGENCY : 1-(800)441-3637

CHEMICAL FAMILY : Mixed Petroleum Hydrocarbons

TRADE NAMES / SYNONYMS

Paraffinic/Naphthenic Solvent

CAS NUMBER : 64742-47-8  
NFPA RATINGS : Health: 0 Flammability: 2 Reactivity: 0  
NPCA-HMIS RATINGS : Health: 1 Flammability: 2 Reactivity: 0  
Personal Protection rating to be supplied by  
user depending on use conditions.

WHMIS CLASSIFICATION

This is not a WHMIS controlled product.

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OSHA HAZARD DETERMINATION  
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Hazardous Ingredients

Cycloparaffinic, Isoparaffinic, and Normal  
Paraffinic Hydrocarbons

CAS Number  
64742-47-8

%  
100

Hazardous Physical Properties:

Class IIIA Combustible Liquid - NFPA Code 30-1987.

Petroleum hydrocarbons have the potential to be irritating to the eyes, skin, and lungs and, as such, would be classified as hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Refer to the Health Hazards Section of this MSDS for further information and to the Regulatory Information Section for other federal and state regulatory information.

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**PHYSICAL DATA**

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Boiling Point : 360 to 440 deg F  
Vapor Pressure : 2 mm Hg at 100 deg F  
Vapor Density : 6.2 (Air = 1.0)  
% Volatiles : Nil  
Evaporation Rate : Not Applicable  
Water Solubility : Insoluble  
Odor : Nil to Mild  
Form : Liquid  
Color : Clear, colorless  
Specific Gravity : (H2O=1) 0.80-0.81

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**HAZARDOUS REACTIVITY**

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Instability : Stable.

Hazardous Decomposition Products: Combustion products will include carbon dioxide and possibly carbon monoxide.

Conditions to Avoid: Excessive heat, flame and oxidizing materials.

Hazardous Polymerization: Will not occur.

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**FIRE AND EXPLOSION DATA**

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Flash Point : 140-150 deg F  
Method : TCC  
Flammable Limits in Air, % by Volume  
LEL : 1.0  
UEL : 6.0

**FIRE AND EXPLOSION HAZARDS**

Class IIIA Combustible Liquid (NFPA).

**EXTINGUISHING MEDIA**

Water Spray. Foam. Dry Chemical. CO2.

**SPECIAL FIRE FIGHTING INSTRUCTIONS**

Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

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**HEALTH HAZARD INFORMATION**

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Primary Route(s) of Exposure/Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

Extreme exposure or aspiration into the lungs may cause pneumonia. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness or convulsions.

The product contains petroleum hydrocarbons and, as with many petroleum products, it may cause irritation to the eyes, lungs, or skin after prolonged or repeated exposure.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure. Animal studies show that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillates has caused adverse kidney effects in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Also, human studies do not indicate this peculiar sensitivity for kidney damage. The significance of liver tumors in mice is highly speculative and not a good indicator for predicting a potential human health hazard.

**CARCINOGENICITY**

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

**EXPOSURE LIMITS**

CONOSOL C-140

TLV (ACGIH) : None Established  
PEL (OSHA) : None Established  
Other : Exposure limit for Petroleum Distillate:  
PEL: 400 ppm; 1600 mg/m<sup>3</sup> - 8 Hr. TWA

**SAFETY PRECAUTIONS**

Wash thoroughly after handling. Wash clothing after use.

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**FIRST AID**

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**INHALATION**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**SKIN CONTACT**

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse. If irritation develops, consult a physician.

**EYE CONTACT**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**INGESTION**

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**NOTES TO PHYSICIAN**

Activated charcoal slurry may be administered.  
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.  
Administer 5mL/kg, or 350mL for an average adult.

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**PROTECTION INFORMATION**

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**GENERALLY APPLICABLE CONTROL MEASURES AND PROCEDURES**

Keep away from heat, sparks and flames. Keep container tightly closed. Ground container when pouring. Do not mix with strong oxidizers.

Ventilation: General mechanical ventilation normally adequate.

**PERSONAL PROTECTIVE EQUIPMENT**

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below the acceptable limits in the Health Hazard Information Section. Proper respiratory selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respiratory protection factors.

Protective gloves: Should be worn when any potential exists for skin contact. NBR or neoprene recommended.

Eye Protection: Chemical splash goggles or face shield recommended where splashing can occur.

Other Protective Equipment: Sufficient to minimize skin

(PROTECTION INFORMATION - Continued)

exposure. Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse. Extremely contaminated leather shoes should be discarded.

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**SPILL, LEAK AND DISPOSAL INFORMATION**  
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**SPILL, LEAK, OR RELEASE**

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

**WASTE DISPOSAL**

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Recover nonusable free liquid and dispose of in an approved and permitted incinerator.

By itself, the liquid may be a RCRA ignitable hazardous waste, when disposed.

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**SHIPPING INFORMATION**  
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**DOT**

Proper Shipping Name : Petroleum distillate  
Hazard Class : Combustible liquid  
UN/NA No. : UN 1268  
DOT Labels(s) : None  
DOT Placard : Combustible

**IATA/IMO**

Proper Shipping Name : Not restricted

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**STORAGE CONDITIONS**  
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Store in accordance with National Fire Protection Assn regulations.

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**TITLE III HAZARD CLASSIFICATIONS**  
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Acute : Yes  
Chronic : Yes  
Fire : Yes  
Reactivity : No  
Pressure : No

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**REGULATORY INFORMATION**  
-----**FEDERAL REGULATIONS**

CERCLA, 40 CFR 302

The material is not known to contain any ingredient(s) subject to the Act.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986,  
TITLE III - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances,  
40 CFR 355

The material is not known to contain extremely hazardous substances at greater than 1.0% concentration; however, it is possible that this material may contain extremely hazardous substances at a lower concentration so that a large enough spill could warrant an Emergency Release Report under Section 304.

SECTION 313 - List of Toxic Chemicals, 40 CFR 372

The material is not known to contain chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

TOXIC SUBSTANCES CONTROL ACT (TSCA), 40 CFR 710

This material is in the TSCA Inventory of Chemical Substances and/or is otherwise in compliance with TSCA.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261,  
SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT,

## (REGULATORY INFORMATION - Continued)

40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient	Reportable Quantity
Petroleum Hydrocarbon	Film or sheen upon or discoloration of the water surface or adjoining shoreline

HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS,  
49 CFR 171-178.

The material is not known to contain any ingredient(s) subject to the Act.

## FOREIGN REGULATIONS

CANADIAN HAZARDOUS PRODUCTS ACT (WHMIS)

The material is not a WHMIS Controlled Product.

## STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT  
OF 1986 ("PROPOSITION 65")

The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

The material contains the following substances found on the Pennsylvania Hazardous Substance List::

Ingredient(s)	CAS Reg. No.	Category
Petroleum Distillates	64742-47-8	Hazardous Substance

Nonhazardous ingredient(s) information is withheld as a trade secret in accordance with Section 11 of the Act.

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The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

MSDS No. CSPI0140

CONOCO  
Material Safety Data Sheet  
\*\*\* Draft \*\*\*

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Responsibility for MSDS : SHEA  
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End of MSDS