



EMERGENCY HEATER-IN-A-CAN

LESS THAN
\$10
PER UNIT

YOUTUBE : USNERDOC

WARNING: Combustion consumes oxygen and produces **carbon dioxide** (CO₂) & **carbon monoxide** (CO). **Use common sense and provide adequate ventilation.**

Refer to isopropyl alcohol MSDS excerpt & [clickable link](#).

BILL OF MATERIALS

- CLEAN QUART PAINT CAN & LID 1
- ROLL TOILET TISSUE 1
- QUART BOTTLE ISOPROPYL ALCOHOL 1 (2-3 EXTRA FOR SPARE FUEL)
- BUTANE LIGHTER 1
- PAINT CAN OPENER 1
- DUCT TAPE (8 INCHES) 1
- **OPTIONAL** CLEAN 1 GAL PAINT CAN LID 1

CONSTRUCTION DETAILS

- REMOVE CORE FROM TOILET PAPER ROLL
- STRIP OFF ENOUGH T.P. TO ALLOW INSERTION OF ROLL INTO EMPTY CAN
- SATURATE TOILET PAPER ROLL WITH ISOPROPYL ALCOHOL (APPROX $\frac{3}{4}$ QT)
- SEAL CAN WITH LID
- FOLD OVER ENDS OF DUCT TAPE (APPROX $\frac{1}{2}$ INCH)
- USE DUCT TAPE TO SECURE LIGHTER & CAN OPENER TO SIDE OF CAN



OPERATION

- REMOVE LIGHTER & CAN OPENER FROM SIDE OF CAN
- *CRACK VEHICLE WINDOWS TO PROVIDE ADEQUATE VENTILATION*
- *CLEAR SAFE OPERATING AREA (AT LEAST 2 SQUARE FEET)*
- *CLEAR OVERHEAD OBSTRUCTIONS*
- REMOVE CAN LID
- IGNITE WITH LIGHTER
- EXTINGUISH WITH CAN LID
- *REFUEL AS NEEDED WITH SPARE ISOPROPYL ALCOHOL*
- *ONLY REFUEL WHEN HEATER IS COOL*
- *VERIFY NO OPEN FLAMES WHEN REFUELING*

OPERATIONAL TIPS

- WHEN SPACE SUFFICIENTLY WARM, CONSERVE FUEL & EXTINGUISH FLAME
- WHEN SPACE COOLS, TOP OFF ISOPROPYL ALCOHOL & RELIGHT STOVE
- 90% ISOPROPYL ALCOHOL YIELDS A HOTTER FLAME AND WILL NOT CONTRIBUTE AS MUCH MOISTURE AS 70% ISOPROPYL ALCOHOL, ADVANTAGEOUS WHEN USED IN A WINTER EMERGENCY KIT
- DO NOT USE SCENTED ALCOHOL
- JUDICIOUSLY USED, 4-6 PINTS (2-3 QT) ISOPROPYL WILL KEEP A CAR BETWEEN 60 TO 70 DEGREES FOR APPROXIMATELY 24 HOURS
- OPTIONALLY CARRY A LARGER 1 GAL METAL PAINT CAN LID, SHALLOW METAL COOK PAN OR COOKIE SHEET AS A PROTECTIVE FIRE RESISTANT BASE
- *THIS HEATER IS NOT RECOMMENDED FOR COOKING!*

MSDS EXCERPT

"Hazardous Decomp Products: PYROLYSIS [COMBUSTION] WILL RELEASE TOXIC GASES SUCH AS CARBON DIOXIDE AND CARBON MONOXIDE . . ."

CLICKABLE LINK ISOPROPYL ALCOHOL REPRESENTATIVE MSDS

CLICKABLE INTERNET REFERENCES

- **YOUTUBE : USNERDOC - EMERGENCY HEATER-IN-A-CAN VIDEO**
- **YOUTUBE : USNERDOC - EMERGENCY HEATER-IN-A-CAN PDF**
- **NOAA - Winter Survival PDF**
- **SURVIVALTOPICS.COM**
- **TACTICAL INTELLIGENCE**

COMPLETED UNIT . . . READY TO GO

