

# IGNITABLE LIQUID PACKAGING

CRIMINALISTICS SERVICES DIVISION

OKLAHOMA STATE BUREAU OF INVESTIGATION



# HOW TO PACKAGE FIRE DEBRIS

## LINED PAINT CANS

QUART OR GALLON LINED PAINT CANS

FILLED  $\frac{3}{4}$  OF THE WAY FULL (OR LESS)  
WITH FIRE DEBRIS



# WE PROVIDE LINED PAINT CANS FOR FREE!

YOU WILL NEED TO FILL OUT THIS FORM AND COME TO THE OSBI TO PICK THEM UP.

[MICROSOFT WORD - KIT OKLAHOMA STATE BUREAU OF INVESTIGATION.DOCX](#)

YOU CAN PICK THEM UP FROM THE LAB IN TAHLEQUAH, MCALESTER, OR THE FORENSIC SCIENCE CENTER IN EDMOND.



# NYLON BAGS

USE NYLON BAGS THAT HAVE BEEN APPROVED FOR IGNITABLE LIQUID CASES.

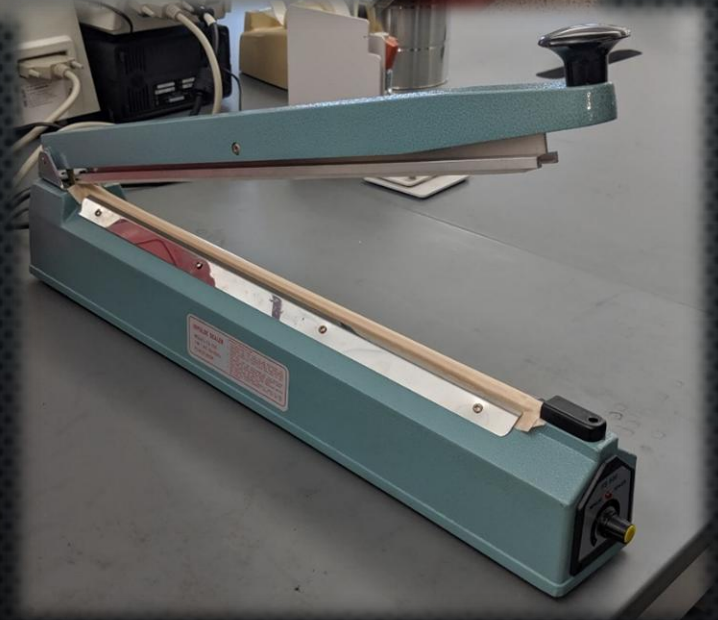
NYLON ARSON EVIDENCE BAGS, 20 PER PACK

**HEAT SEAL THE NYLON BAG.**

*\*\*EVIDENCE NEEDS TO BE PACKAGED AND SEALED ASAP TO PREVENT EVAPORATION OF ANY IGNITABLE LIQUIDS.\*\**

AFTER BEING HEAT SEALED, THE BAG CAN BE PLACED INSIDE A BOX TO MAKE IT EASIER TO STORE AND TRANSPORT TO THE LAB.

GREAT FOR CLOTHING, BLANKETS, AND FIRE DEBRIS THAT WON'T FIT IN A PAINT CAN.

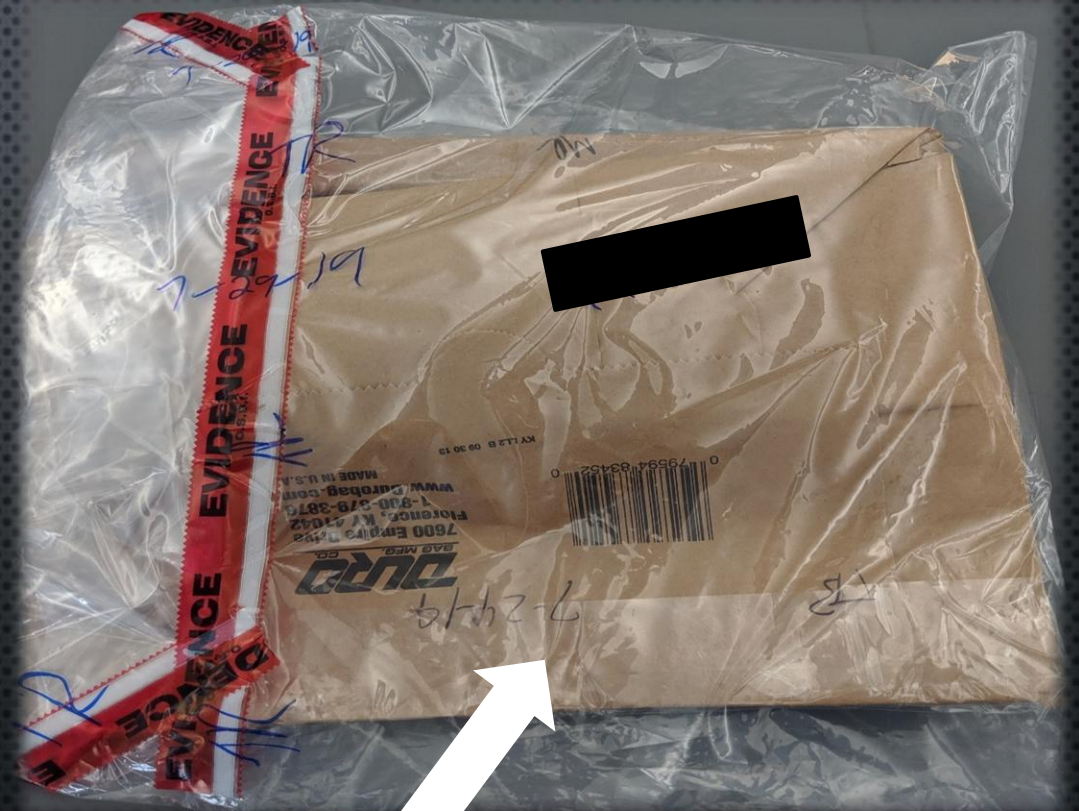


# IMPROPER PACKAGING

DO NOT USE *PLASTIC BAGS*.

DO NOT PUT TAPE ON EVIDENCE THAT IS PLACED INTO A NYLON BAG.

DO NOT SEAL THE NYLON BAG WITH TAPE (EVIDENCE OR 2" TAPE).



2" tape on paper sack

Please do not leave/put your gloves in the can or nylon bag with the evidence.



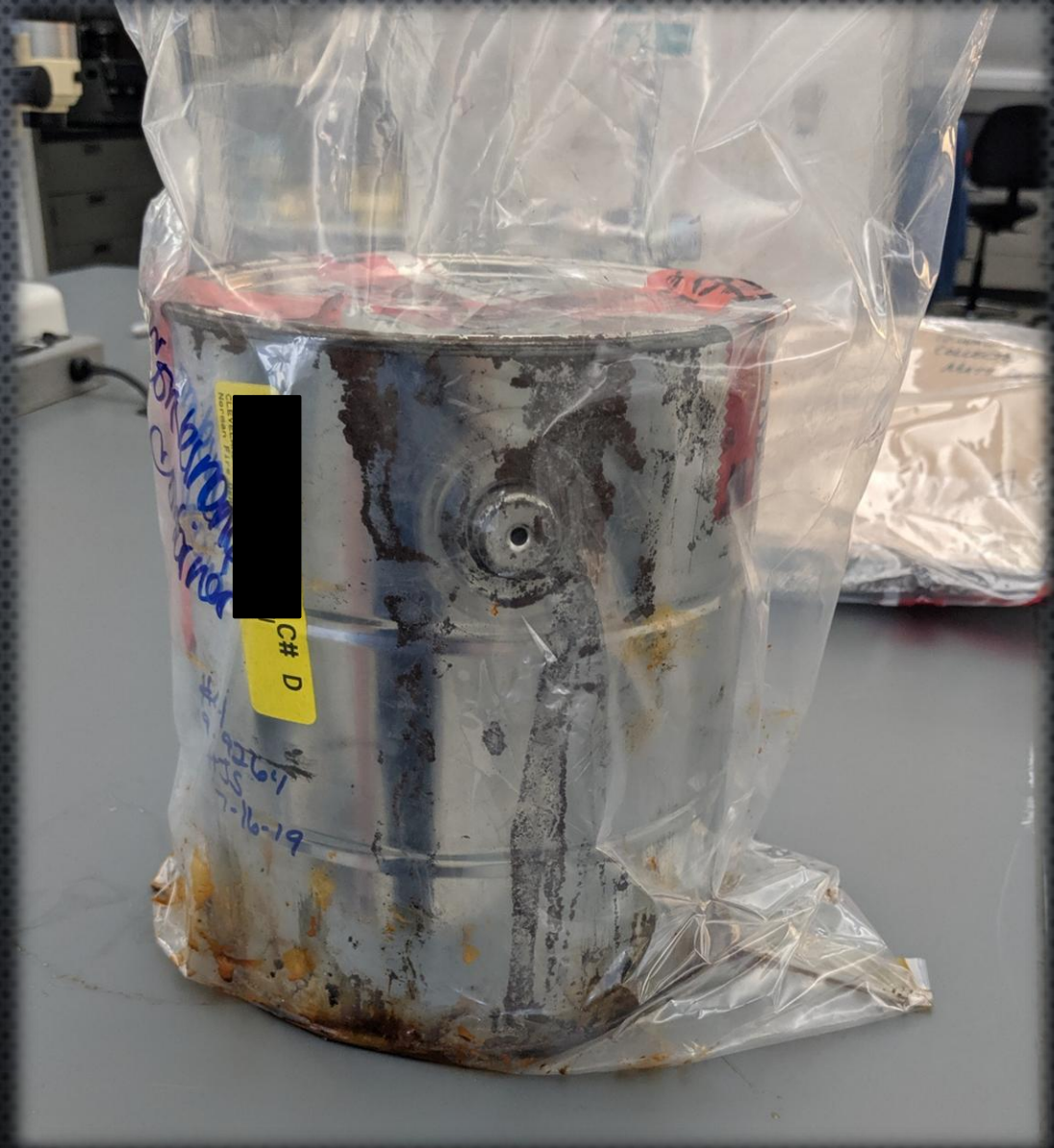
Do not put your evidence in a plastic bucket or a paper bag.



*This evidence was removed from the bucket and paper bag and put into a nylon bag.*

PLEASE DO NOT USE UNLINED CANS.

THE CANS WILL RUST QUICKLY, LETTING  
THE IGNITABLE LIQUIDS ESCAPE THE  
CONTAINER.



# WHY THE PACKAGING MATTERS

THE TAPE DOES NOT SEAL NYLON BAGS, AND THE IGNITABLE LIQUIDS WILL EVAPORATE AND ESCAPE THE CONTAINER.

THE PAPER BAGS WILL NOT KEEP IN THE IGNITABLE LIQUIDS, AND THE IGNITABLE LIQUIDS WILL EVAPORATE AND ESCAPE THE CONTAINER.

THE PLASTIC BUCKETS, GLOVES, AND TAPE ARE PETROLEUM PRODUCTS AND WILL INTERFERE WITH THE TESTING.



# HOW WE ANALYZE AN IGNITABLE LIQUID CASE

WE CHECK TO SEE IF THE CAN OR NYLON BAG IS PROPERLY SEALED AND LABELED

- A PROPER SEAL IS ONE OR TWO PIECES OF EVIDENCE TAPE GOING ACROSS THE TOP OF THE CAN AND DOWN THE SIDES, OFFICER'S INITIALS.
- NYLON BAGS SHOULD BE HEAT SEALED AND LABELED WITH THE OFFICER'S INITIALS.

WE OPEN THE EVIDENCE AND MAKE AN INVENTORY OF WHAT IS INSIDE.



# ANALYSIS

A CARBON STRIP IS ATTACHED TO THE LID OF THE CAN USING A MAGNET.

OR A CARBON STRIP IS PLACED IN A NYLON BAG.

THE CAN IS PLACED IN THE OVEN AT 60 °C FOR 16 HOURS.



# ANALYSIS

THE CARBON STRIP IS REMOVED FROM THE CAN OR NYLON BAG AND PUT INTO A GLASS VIAL WITH CARBON DISULFIDE.

IT IS THEN ANALYZED ON THE GAS CHROMATOGRAPH/MASS SPECTROMETER.



# SOIL & VEGETATION SAMPLES

THERE ARE MICROBES IN SOIL THAT WILL EAT/BREAK DOWN THE INDIVIDUAL COMPONENTS THAT ARE USED FOR THE CLASSIFICATION OF IGNITABLE LIQUIDS.

IF YOU HAVE A SOIL AND/OR VEGETATION SAMPLE:

1. STORE THE CAN IN A REFRIGERATOR OR FREEZER.  
*THIS WILL SLOW DOWN THE DEGRADATION PROCESS.*
2. INDICATE ON THE RFLE THAT THE SAMPLE CONTAINS SOIL/VEGETATION.
3. BRING THE EVIDENCE IN FOR ANALYSIS AS SOON AS POSSIBLE.



**IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT**

**JENNIFER DAO**

**TRACE SUPERVISOR/TECHNICAL MANAGER**

**405-330-6724**

