IDENTIFY AND CLASSIFY

Hazardous Household Products

Introduction
Hazardous household products have words that identify their specific hazard level and hazard category.

Preparation
• Print out one or two sets of the 41 product photos, depending on the size of your class. Each group of three-four students will need at least six photos to work with.
• Cut out each photo (either around the edges of the product or as a rectangle) and glue onto card stock. For longer wear, laminate.
• Create “What words did you see…?” as either a transparency or other projected slide, or as a set of worksheets for each student/group of students.
• Create “How do you know if a product is hazardous?” as a transparency or other projected slide.
• Create the five Hazard Categories as transparencies or other projected slides.

Directions
1. Divide the class into groups consisting of three or four students.
2. Give at least six different product photos to each group.
3. Ask each group to sort the photos into two piles, one of products they think are harmful and the other of products they think are safer. Ask them to remember what words on the labels make them think the products are harmful or safer.
4. Use “What words did you see…?” either as a projected image for the whole class to fill in together or as a worksheet for individuals to fill in.
5. Show the “How do you know if a product is hazardous?” transparency. Tell students that the words CAUTION, WARNING, DANGER or POISON are required by law to be on household products that are hazardous. The words can be used as a hazard rating system.
6. Ask the groups to re-sort their product photos into three piles. Student results will vary depending on which images they have:
   • Highest hazard pile (product must say DANGER or POISON)
   • Moderate hazard pile (product must say CAUTION or WARNING)
   • Safer pile (product does not say CAUTION, WARNING, DANGER or POISON)

7. Show the Hazard Categories transparencies and review the terms and ideas.

8. Ask each student to choose a hazardous product (one that says CAUTION, WARNING, DANGER or POISON) from their piles and determine which hazard category their hazardous product fits into. Is it flammable, corrosive, reactive, toxic or an irritant? Some products are hazardous in more than one way.

   After students know how their product is hazardous, this information can be shared with the rest of the class. For example, have students stand at the front of the class, or raise their product image, if their product is toxic. Continue through the rest of the hazard categories.

9. As a check for understanding, have some students read their labels out loud to the rest of the class. Or, you might read labels from “real” products you have in the classroom. Have the rest of the class vote on whether they think the product is hazardous or not, and if it is hazardous, what level of hazard it is.
<table>
<thead>
<tr>
<th>Name of product</th>
<th>Hazard level</th>
<th>Hazard Category *</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 in One</td>
<td>D</td>
<td>Toxic</td>
</tr>
<tr>
<td>Household Oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arm &amp; Hammer Baking Soda</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Bon Ami</td>
<td>C</td>
<td>Irritant</td>
</tr>
<tr>
<td>Brasso Metal Polish</td>
<td>D</td>
<td>Flammable, Irritant, Toxic</td>
</tr>
<tr>
<td>Bubbles</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Cascade Automatic Dishwashing Detergent</td>
<td>C</td>
<td>Irritant, Toxic</td>
</tr>
<tr>
<td>Castrol Brake Fluid</td>
<td>D</td>
<td>Toxic</td>
</tr>
<tr>
<td>Clorox Bleach</td>
<td>D</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Comet Cleanser</td>
<td>C</td>
<td>Not clear from front of label</td>
</tr>
<tr>
<td>Crayola Crayons</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Cutex</td>
<td>W</td>
<td>Flammable</td>
</tr>
<tr>
<td>Dow Heavy Duty Oven Cleaner</td>
<td>D</td>
<td>Corrosive, Toxic</td>
</tr>
<tr>
<td>Elmer’s Glue-All</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Future Wax</td>
<td>C</td>
<td>Irritant</td>
</tr>
<tr>
<td>Gasoline</td>
<td>D</td>
<td>Flammable, Toxic</td>
</tr>
<tr>
<td>Heinz Cider Vinegar</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Holiday Household Insect Fogger</td>
<td>C</td>
<td>Not clear from front of label</td>
</tr>
<tr>
<td>Jasco Paint and Epoxy Remover</td>
<td>D</td>
<td>Irritant, Toxic</td>
</tr>
<tr>
<td>Johnson Lemon Pledge</td>
<td>C</td>
<td>Flammable</td>
</tr>
<tr>
<td>K2r Spot-lifter</td>
<td>D</td>
<td>Flammable, Irritant, Toxic</td>
</tr>
<tr>
<td>Krylon Interior/ Exterior Paint</td>
<td>D</td>
<td>Flammable, Irritant, Toxic</td>
</tr>
<tr>
<td>Liquid-Plumr</td>
<td>D</td>
<td>Corrosive, Toxic</td>
</tr>
<tr>
<td>Mill Creek Castile Soap</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Para Moth Balls</td>
<td>C</td>
<td>Not clear from front of label</td>
</tr>
</tbody>
</table>

* That can be seen on the front of the product photo. More information is often available elsewhere on a real product.

▲ These food items can be used to create safer alternatives to hazardous household products. See activities in this series: Toxic-free Bingo and Concentration Game.
**Notes:**

Always read the front and back label of the actual product you are considering using or buying. These photos are only a practice set.

These photos show only the front label. Actual products could have much more information on the back label, including additional hazard categories. To simplify the learning, we categorized the product photos only by the information available on the front labels.

Companies change their formulas frequently, and thus, the hazard level or category may also change. As these photos become dated, they may not represent the current formulation of a product.

What is “reactive”? There are many different kinds of hazardous reactions. In a home, the most common reactive products are chlorine bleach and ammonia. If these products are accidentally mixed, they produce toxic gases. Products containing chlorine bleach or ammonia are “reactive” and will say on the back label “do not mix with other household products to avoid hazardous gases.” This information is often not stated on the front label and your students will not have access to that information with this photo set.
Prestone® Antifreeze/Coolant

Corrosion Protection

-84°F to +276°F

All Weather Protection

WARNING:
HARMFUL OR FATAL IF SWALLOWED OR INHALED
Read cautions on back label

1 GAL. (3.78L)
Holiday Household Insect FOGGER
Kills Fleas, Roaches,
Ants, Ticks, Spiders, Flying Moths, Flies, Mites,
Quitoes, Silverfish, Palmetto Bugs, Wasps,
Hornets, Crickets. *Adults and Pre-Adult

TREATS UP TO 5,000 CU. FT.

ACTIVE INGREDIENTS: CyanoC (3-phenoxypyphenyl) methyl-4-chloro,
alpha-Carbaryl, (1-methyl) benzeneacetate 0.5%, Permethrine,
Butoxyethanol 1.0%, N-propylpiperonyl carbamate 10%

INGREDIENTS: 97.5% TOTAL 100%.

KEEP OUT OF REACH OF CHILDREN

CAUTION
READ ADDITIONAL CAUTIONS ON BACK PANEL

NET WT 5 OZ (141g)
Mill Creek

OLD FASHIONED
PURE CASTILE SOAP
with Peppermint Oil

A pure and natural soap with peppermint oil added for its soothing and stimulating properties.

- PURE VEGETABLE OILS
- CONTAINS NO SYNTHETIC DETERGENTS
- CONTAINS NO ARTIFICIAL INGREDIENTS
- CONCENTRATED AND ECONOMICAL
- 100% BIODEGRADABLE

8.5 FL. OZ. / 255ml
Comet
Disinfectant Cleanser
Bleaches Out Tough Stains
Disinfects as it Cleans
NET WT 14 OZ (396g)
Now! FIGHTS SPOTS BETTER!

CASCADE

WITH SHEETING ACTION

For Virtually Spotless Dishes

CAUTION: HARMFUL IF SWALLOWED. EYE IRRITANT. SEE CAUTION ON SIDE PANEL.

NET WT 35 OZ (2.18 LB) 992g
GASOLINE

DANGER GASOLINE EXTREMELY FLAMMABLE • VAPORS CAN EXPLODE • HARMFUL OR FATAL IF SWALLOWED

IF SWALLOWED DO NOT INDUCE VOMITING • CALL PHYSICIAN IMMEDIATELY KEEP OUT OF REACH OF CHILDREN • AVOID PROLONGED BREATHING OF VAPORS • STORE AND USE IN WELL VENTILATED AREA • VAPORS CAN BE IGNITED BY A SPARK OR FLAME SOURCE MANY FEET AWAY • KEEP AWAY FROM FLAME, PILOT LIGHT, STOVES, HEATERS, ELECTRIC MOTORS, AND OTHER SOURCES OF IGNITION • KEEP CONTAINER CLOSED.
DANGER: HARMFUL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN.
DANGER: KEEP OUT OF REACH OF CHILDREN. INJURES EYES, SKIN, AND MUCOUS MEMBRANES ON CONTACT. HARMFUL IF SWALLOWED.
LEWIS RED DEVIL LYE
100% LYE
POISON
DRAIN OPENER
HARMFUL OR FATAL IF SWALLOWED OR MISUSED. CAUSES SEVERE BURNS TO EYES AND SKIN ON CONTACT. KEEP OUT OF REACH OF CHILDREN.
HAND PRECAUTIONS ON BACK PANELS CAREFULLY.
KEEP OUT OF REACH OF CHILDREN.

WARNING.

EYE IRRITANT. USE ONLY IN WELL VENTILATED AREAS. SEE BACK OF LABEL FOR ADDITIONAL PRECAUTIONS.
Enoz

Para

Moth Balls

No Clinging Odors

Kills Moths and Carpet Beetles

Net WT. 10 OZ. (283.4g)

Keep out of reach of children

Caution: See side panel for additional precautions.
JASCO

PAINT & EPOXY REMOVER

WATER RINSABLE

PROFESSIONAL • HOME • MARINE
REMOVES ALL PAINTS • LATEX
EPOXY • VARNISH
NON-FLAMMABLE • NO NEUTRALIZING

32 FL. OZ. (1 QT.) .946 LITER

DANGER! MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. VAPOR HARMFUL. SKIN AND EYE IRRITANT.

Read Other Cautions and HEALTH HAZARD INFORMATION on Back Panel.
SureFire™ Products

EASY • EFFECTIVE • GUARANTEED

THE ULTIMATE ROACH TRAP

Easy to use.
Kills roaches, waterbugs, palmetto bugs and crickets.
No toxic chemicals.
Long-lasting!

2 TRAPS INSIDE

Mata Cucarachas • Instrucciones en Español

Unconditionally Guaranteed. Made in USA
Another biolarational product from Consep, Inc.
CAUTION: EYE IRRITANT. READ CAUTIONS ON BACK LABEL CAREFULLY.
Turpentine
Steam Distilled

Pure Spirits. Thins oil-based paint and varnish.

DANGER! FLAMMABLE. HARMFUL OR FATAL IF SWALLOWED. EYE IRRITANT. Read other cautions on back panel.

32 FL. OZ. (1 QT.) .946 LITER
WD-40®

- Stops Squeaks
- Protects Metal
- Loosens Rusted Parts
- Frees Sticky Mechanisms

DANGER: EXTREMELY FLAMMABLE
CONTENTS UNDER PRESSURE.
HARMFUL OR FATAL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN.
SEE OTHER CAUTIONS ON BACK.

NET WEIGHT 9 OZ./255g
What words did you see on the household products?

1.  C _ _ _ _ _
2.  W _ _ _ _ _
3.  D _ _ _ _
4.  P _ _ _ _
5.  Keep _____ __ __ _____ __ __________
6.  Fatal if ________________
7.  If swallowed, call ________________
8.  h _ _ _ _ _ _
9.  h _ _ _ _ _
10. fl _ _ _ _ _ _
# How do you know if a product is hazardous?

<table>
<thead>
<tr>
<th>Safer</th>
<th>Does not have CAUTION, WARNING, DANGER or POISON on the label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moderate Hazard</td>
<td>CAUTION or WARNING</td>
</tr>
<tr>
<td>Highest Hazard</td>
<td>DANGER or POISON</td>
</tr>
</tbody>
</table>

Produced by King County as part of the Local Hazardous Waste Management Program in King County
**TOXIC:**
Can cause injury or death if swallowed, inhaled, or absorbed through the skin

*Phrase to look for:* Harmful or fatal if swallowed
CORROSIVE:
Can wear away materials or burn living tissue by chemical action

Phrases to look for: Causes chemical burns; Injurious to skin and eyes

Produced by
King County
as part of the Local Hazardous Waste Management Program in King County
**FLAMMABLE/COMBUSTIBLE:**
Can catch fire at relatively low temperatures

*Phrase to look for:* Keep from heat or flame
**REACTIVE:**
Can create a toxic gas if mixed with other products

**Phrase to look for:** Do not mix…
IRRITANT:
Can cause inflammation of living tissue on contact

Phrase to look for: Eye and skin irritant