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 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 Househod Oil</td>
<td>D</td>
<td>Toxic</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>

<table>
<thead>
<tr>
<th>Name of product</th>
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<th>Hazard Category *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parson's Ammonia</td>
<td>C</td>
<td>Irritant, Toxic</td>
</tr>
<tr>
<td>Pine-Sol</td>
<td>W</td>
<td>Irritant, Toxic</td>
</tr>
<tr>
<td>Prestone Antifreeze</td>
<td>W</td>
<td>Toxic</td>
</tr>
<tr>
<td>Red Devil Lye</td>
<td>P</td>
<td>Corrosive, Toxic</td>
</tr>
<tr>
<td>Rodda Masstone Enamel</td>
<td>D</td>
<td>Toxic</td>
</tr>
<tr>
<td>Ronsonol Lighter Fuel</td>
<td>D</td>
<td>Flammable, Toxic</td>
</tr>
<tr>
<td>Rubber Cement</td>
<td>D</td>
<td>Flammable</td>
</tr>
<tr>
<td>Soft Scrub Cleaner</td>
<td>C</td>
<td>Irritant</td>
</tr>
<tr>
<td>Spray-n-Wash</td>
<td>C</td>
<td>Irritant</td>
</tr>
<tr>
<td>Sure Fire Ultimate Roach Trap</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Tide</td>
<td>C</td>
<td>Irritant, Toxic</td>
</tr>
<tr>
<td>Tilex</td>
<td>W</td>
<td>Irritant</td>
</tr>
<tr>
<td>Turpentine</td>
<td>D</td>
<td>Irritant</td>
</tr>
<tr>
<td>Ultra Sheen</td>
<td>No C-W-D-P</td>
<td>None</td>
</tr>
<tr>
<td>Ultra-Pure Candle &amp; Lamp Oil</td>
<td>D</td>
<td>Flammable, Toxic</td>
</tr>
<tr>
<td>WD-40</td>
<td>D</td>
<td>Flammable, Toxic</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 activites 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

-84° to +276°
All Weather Protection

1 GAL. (3.78L)

WARNING: HARMFUL OR FATAL IF SWALLOWED OR INHALED. Read cautions on back label.
ARM & HAMMER

A HOUSE-FULL OF USES! See back

THE STANDARD OF PURITY

Natural Baking Soda

For Baking, Cleaning & Deodorizing

NET WT. 2 LB. (907 g)
Holiday

Household Insect
FOGGER
Kills Fleas, Roaches,
Ants, Ticks, Spiders, Flying Moths, Flies, Millipedes, Silverfish, Palmetto Bugs, Wasps, Hornets, Crickets. *Adults and Pre-Adult

TREATS UP TO 5,000 CU FT

ACTIVE INGREDIENTS: Cyano (3-phenoxypyphenyl) methyl-4-ethyl
alpha- (1-methyl-1-ethyl) benzeneacetate 0.5%, Propoxur Resin
2% 0.1%, N-ethyl bicycloheptene dicarbamate 0.1%

INERT INGREDIENTS: 97.5% TOTAL 100%

READ ADDITIONAL CAUTIONS ON BACK PANEL

KEEP OUT OF REACH OF CHILDREN

NET WT 5 OZ (141g)
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. / 255 ml
Comet
Disinfectant Cleanser

Bleaches Out Tough Stains
Disinfects as it Cleans

NET WT 14 OZ (396g)
Now! Fights Spots Better!

Automatic Dishwashing Detergent

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
DANGER:
HARMFUL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN.
RONSONOL®
LIGHTER FUEL
MADE BY RONSON®
NET CONT. 5 fl oz (148 ml)
CONTAINS NAPHTHA
DANGER: FLAMMABLE
HARMFUL OR FATAL OF SWALLOWED.
READ CAUTIONARY STATEMENT CAREFULLY.
DANGER: KEEP OUT OF REACH OF CHILDREN. INJURES EYES, SKIN, AND MUCOUS MEMBRANES ON CONTACT. HARMFUL IF SWALLOWED.
LEWIS
RED
DEVIL

LYE
100% LYE

DRAIN OPENER
POISON

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.

NET WT 72 OZ (2 KG)
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

ACTIVE INGREDIENT:
PARADICHLOORBENZENE 99.6%
INERT INGREDIENTS:
TOTAL: 100.0%

NET WT. 10 OZ. (283.4g)

KEEP OUT OF REACH OF CHILDREN
CAUTION: SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS.
CUTEX
NAIL STRENGTHENING
Polish Remover
With KNOX® Gelatine

WARNING: EXTREMELY FLAMMABLE - KEEP AWAY FROM FLAME

4 FL. OZ. (118ml)
Your Best Buy!

DOW

HEAVY DUTY oven CLEANER

LIFTS GREASE & HEAVY SOIL IN MINUTES

DANGER: CAUSES BURNS TO SKIN AND EYES ON CONTACT. CONTENTS UNDER PRESSURE HARMFUL IF SWALLOWED

NET WT. 16 OZ. (1 LB.) 453g
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 bio-rational product from Consep, Inc.
Klean-Strip

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.

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><strong>Moderate Hazard</strong></td>
<td>CAUTION or WARNING</td>
</tr>
<tr>
<td><strong>Highest Hazard</strong></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

Produced by King County as part of the Local Hazardous Waste Management Program in King County
CORROSIVE:
Can wear away materials or burn living tissue by chemical action

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