

School Recycling Club SHIP

(Supporting Home Instruction Program)



Lesson Plan 7

Grade Level: 9-12

Lesson: III—Hazardous Produces—Problems & Solutions
Hazardous Materials in Your School (or Home)

Source: *Teaching Toxics*

Activity/Craft: 10 Homemade Cleaners You Will Love

Video Link: Reading the MSDS Label (<https://www.youtube.com/watch?v=sn7nVCYooCY>)

Video Link 2: The Dirty Truth About Toxic Cleaning Products
(<https://www.youtube.com/watch?v=McURp93WofQ>)



Northeast Resource
Recovery Association

School
Recycling CLUB



Lesson Matrix Grades 9-12

Teaching Toxics

Lesson	Concept	Objective	Common Core Alignments		Skills
9-12 Assessing Awareness	An informed public is more likely to make responsible decisions about household hazardous waste disposal.	<ul style="list-style-type: none"> Assess community awareness regarding household hazardous waste Conduct a survey 	Grade 9-10 CC.RI.9-10.1 CC.SL.9-10.1 CC.HSS.ID.6	Grade 11-12 CC.RI.11-12.7 CC.W.11-12.2 CC.HSS.ID.5	<ul style="list-style-type: none"> Analyzing Applying mathematical concepts Gathering data Synthesizing
9-12 Contamination on the Move	Contamination does not stay in one spot; it moves through the environment.	<ul style="list-style-type: none"> Understand how contaminated water can move through the environment 	Grade 9-10 CC.RST.9-10.3 CC.SL.9-10.1 CC.WHST.9-10.1d	Grade 11-12 CC.RST.11-12.3 CC.SL.11-12.1 CC.WHST.11-12.2	<ul style="list-style-type: none"> Developing models Observing Predicting Using evidence
9-12 All Things are Connected: Native American Philosophy	All species in an ecosystem are connected. Hazardous waste entering the ecosystem will disrupt its balance.	<ul style="list-style-type: none"> Examine how our actions affect the environment Examine how all species in an ecosystem are connected 	Grade 9-10 CC.RH.9-10.4 CC.SL.9-10.1 CC.W.9-10.4	Grade 11-12 CC.RH.11-12.2 CC.SL.11-12.1 CC.W.11-12.4	<ul style="list-style-type: none"> Analyzing Communicating solutions Defining problems Interpreting
9-12 Hazardous Materials in Your School	Materials Safety Data Sheets (MSDS) are useful tools for properly managing hazardous products.	<ul style="list-style-type: none"> Become familiar with how to use the MSDS for products used in schools 	Grade 9-10 CC.RI.9-10.1 CC.W.9-10.6 CC.HSS.IC.3	Grade 11-12 CC.RI.11-12.1 CC.W.11-12.4 CC.HSS.CP.5	<ul style="list-style-type: none"> Interviewing Investigating Problem solving Researching
9-12 Silent Spring: A Book that Awakened a Nation	<i>Silent Spring</i> illustrates ecological principles central to responsible environmental decision making.	<ul style="list-style-type: none"> Examine how U.S. society became aware of pesticides' environmental impact. 	Grade 9-10 CC.RI.9-10.3 CC.SL.9-10.1a CC.W.9-10.4	Grade 11-12 CC.RI.11-12.1 CC.SL.11-12.1 CC.W.11-12.2b	<ul style="list-style-type: none"> Analyzing Gathering information Providing evidence
9-12 Household Hazardous Waste Collection Options	Household hazardous waste disposal is the next focus in solid waste management.	<ul style="list-style-type: none"> Examine household hazardous waste management issues 	Grade 9-10 CC.RI.9-10.6 CC.SL.9-10.4 CC.WHST.9-10.4	Grade 11-12 CC.RI.11-12.1 CC.SL.11-12.4 CC.WHST.11-12.1a	<ul style="list-style-type: none"> Analyzing Communicating information Problem solving Questioning

9-12: Hazardous Materials in Your School

Subjects

Chemistry, Industrial Arts, Practical Skills, Language Arts

Skills

Interviewing, investigating, problem solving, researching

Materials

MSDS sheets, names and addresses of product manufacturer or distributors

Time

Two - three class periods

Vocabulary

MSDS, boiling point, vapor pressure, vapor density, solubility in water, flash point, threshold limit value, stability, incompatibility

Concept

Material Safety Data Sheets (MSDS) are useful tools for properly managing hazardous products.

Objective

Students will become familiar with how to use the MSDS by examining the MSDS for products used in their schools.

Background

The Material Safety Data Sheet (MSDS) is an important document in hazardous material management. The MSDS is a technical bulletin which contains detailed information about the contents of a hazardous product. The MSDS is designed to be a comprehensive source of information for employees who use these hazardous products. The MSDS contains use, storage, first aid and disposal information. In our schools, teachers, staff and sometimes students, use hazardous materials, particularly in science, art and vocational classes. Having an understanding of what is in these materials enables us to make informed choices about using them.

Procedures and Activities

NOTE: Before beginning this activity, check with your principal and any department heads involved to see if they are willing to answer student's questions regarding their use of hazardous materials.

Use your discretion concerning the political climate of your school. Your school may already be taking steps to properly manage their use of hazardous materials. Usually the custodians have the MSDS on file for the cleaning products used in the school. Subject area teachers are less likely to have the MSDS on file. MSDS's are easily obtained by calling or writing to the product manufacturer or distributor. Rather than tackling the entire school, you may want to focus on one department, such as Science, Industrial Arts, Photography, Graphic Arts, or contact building maintenance. If you choose science, Flinn Scientific has developed MSDS's for science teachers: <http://www.flinnsci.com/msds-search.aspx>.

Understanding the MSDS

- In small groups, have students discuss where they think hazardous materials are used in the school and for what purpose. For each area in which hazardous materials are used, have students list a contact person to talk to for more information.



Common Core Alignments

GRADE 9-10

CC.RI.9-10.1

Reading Informational Text:
Key Ideas & Details

CC.W.9-10.6

Writing:
Production & Distribution of
Writing

CC.HSS.IC.3

Mathematics:
Statistics & Probability

GRADE 11-12

CC.RI.11-12.1

Reading Informational Text:
Key Ideas & Details

CC.W.11-12.4

Writing:
Production & Distribution of
Writing

CC.HSS.CP.5

Mathematics:
Statistics & Probability

- Hand out sample MSDS's for different hazardous products used at the school and the How to Read a MSDS sheet (following page). Have the groups discuss all the terms listed and the importance of this information in terms of use, storage and disposal. Ask students to record their ideas.
- As a class, discuss small group findings. If you are a science teacher, you may want to conduct experiments or demonstrations with nonhazardous substances to illustrate some of the characteristics listed on the MSDS (e.g.: vapor pressure.)

Using the MSDS

- Working in small groups, have students use the information listed on the MSDS to write safety suggestions for the product's use and storage. Have the groups present the information to the class.
- Ask the student groups to design safety posters.

Reduction Ideas

- Brainstorm ways the school could reduce the amount of hazardous materials used. Student groups should research possible less hazardous alternatives for the product whose MSDS they examined. Inform relevant school personnel of the students findings.

Extensions

- Invite a local firefighter to speak to the class about the importance of the MSDS and the Emergency Planning and Community Right to Know Act.
- Have students learn about The OSH Act (1970). This law is enforced by OSHA (Occupational Health and Safety Administration). How might this law affect students in their future workplaces? What information do they, as employees, have a right to know if they are using hazardous materials in the workplace? Are OSHA regulations standard throughout the country? How does your state apply OSHA regulations? What about neighboring states?

HOW TO READ A MATERIAL SAFETY DATA SHEET (MSDS)

The MSDS is designed to be a comprehensive source of information for employees who use hazardous substances as part of their jobs. The MSDS contains important use, storage, first aid and disposal information.

Section 1	Chemical Identification This section lists the chemical names (and any trade names), the manufacturer's name and address.
Section 2	Hazardous Ingredients This section lists the product's hazardous ingredients (common name and chemical identification number) and also the chemical concentration which you can safely be exposed to (the Permissible Exposure Limit, PEL, or the Threshold Limit Value, TLV).
Section 3	Physical and Chemical Characteristics This section describes the chemical's appearance, odor and chemical characteristics (e.g.: boiling point, vapor pressure, vapor density, water solubility.)
Section 4	Physical Hazards This section lists information on any fire and explosion hazards and fire fighting procedures.
Section 5	Reactivity This section states whether the chemical reacts with other materials or conditions. Situations and substances to avoid are listed.
Section 6	Health Hazards This section lists symptoms of overexposure and gives first aid and emergency information. It
Section 7	Spill or Leak Procedures This section describes what to do in case of an accidental spill.
Section 8	Special Protection This section lists any protective equipment which is needed to safely use the chemical.
Section 9	Special Precautions This section lists any other special precautions to take while handling the chemical.

Homemade Cleaners You'll Love

10 DIY Cleaning Products



Homemade Cleaners You'll Love: 10 DIY Cleaning Products

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Letter from the Editors

Hey DIY Fans,

Looking for a safe and easy way to keep your home clean? You've come the right place! Nothing feels quite as refreshing as a clean home; and, with this collection of DIY cleaners, you are going to love the cleaning process as much as the end result! Store-bought cleaners are expensive and filled with harsh chemicals. First, who wants to spend all their money on cleaning products? Second, if you are worried about harsh smells and chemicals you cannot pronounce within the products you are using to clean, these natural alternatives are just what you need! This collection of cleaning products features DIY tutorials for cleaning products for laundry, dishwashing, refrigerator cleaning, and more! From sweet smelling citrus cleaners to fresh and easy re-useable dryer sheets, this selection of homemade cleaning products is centered on DIY cleaners that you can make in your own home and are sure to adore. Whether you want to clean your eyeglasses or your windows, there is a DIY cleaner for you in this collection of tutorials.

With *Homemade Cleaners You'll Love: 10 DIY Cleaning Products*, you will be able to make DIY cleaners you need for any occasion with ease. Whether you are trying to remove odors from your refrigerator, are needing a cleaner that is safe for wood floors, or are wanting to make you own dish soap, you are sure to find the homemade cleaner you need in this collection. Most of these tutorials require less than five ingredients and have just a few simple steps, which means you'll be making your own DIY cleaning products in no time! By printing out this free eBook, you will have an amazing resource for the best homemade cleaners around. These DIY cleaning products are sure to become staples in your household!

You can find more tutorials, tips, and DIY projects ideas at www.DIYideaCenter.com.

Our eBooks, like all our jewelry making projects, are absolutely FREE to members of our jewelry making community. Please feel free to share with family and friends and ask them to sign up at our Web site for our [free e-mail newsletter](#).

Happy creating!

The Editors of DIYideaCenter

www.DIYideaCenter.com

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DIY CLEANING PRODUCTS FOR LAUNDRY

Homemade Liquid Laundry Detergent

By: Brenna from [Life After Laundry](#)

If you want to know how to make your own laundry detergent, look no further. This liquid laundry detergent recipe is really easy to make. Homemade liquid laundry detergent only uses a few ingredients, and has so much cleaning power. It's all natural, and you can add any essential oils you desire into the mixture or leave it unscented for sensitive noses. The best part is that it is only a fraction of the cost of name brand detergents and cleans just as well, if not better.



Supplies:

- 1 Bar of Fels Naptha Laundry Bar
- 1 cup of Arm & Hammer Super Washing Soda
- 1/2 cup of Borax
- Water
- 5 Gallon Bucket with lid
- Something to stir- I use a paint stirrer that attaches to a drill
- (Optional) 10 Gallon Jugs
- (Optional) Essential Oils

Instructions:

1. Grate the bar of Fels- Naptha soap.
2. Add 4 cups of hot water and the soap to a pot. Heat on medium low heat until the soap is completely melted.
3. Fill your 5 gallon bucket half way full with hot water.
4. Add the soap mixture, Washing Soda and Borax to your hot water. Stir.
5. Add more water, completely filling the bucket this time.
6. Stir Again. Cover and let set overnight.
7. In the morning it should have thickened to a consistency that looks... crazy enough like laundry detergent.
8. To make a gallon of laundry detergent fill a jug half way (8 cups) with your soap and the other half (8 cups) with water. Shake.
9. Add essential oils to each jug, if desired.
10. Use 1/2 cup for top loading machines and 1/4 for front loading machines.

Notes from the designer:

- You can either leave it in the bucket till you need it or go ahead and divide into gallon jugs. If you leave it in the bucket you are going to have to stir it up again before dividing it.
- This laundry detergent produces very little suds if any. Don't be alarmed, it is still working. Fels-Naptha is a pure soap.
- You will still need to use a stain remover for tough stains and grease.
- Some people have said they didn't need to use as much or any fabric softener when using this laundry detergent recipe.

Homemade Dryer Sheets

By: Breanna from [Life After Laundry](#)

When you use a store-bought dryer sheet for your laundry, it is pretty much used up after one load. If you have a big family, you are doing laundry a lot and will go through them quickly. On the other hand, homemade dryer sheets can last up to 12 uses and work just as well. These DIY dryer sheets smell great and leave clothes softened just like brand name dryer sheets, but they are much less expensive and much easier to make. With this DIY project, you will never need to buy them again.



Supplies:

- Washcloths or a hand towel cut into 4 pieces
- Fabric Softener
- An Empty Container



Instructions:

1. You can use washcloths or a hand towel cut into 4 pieces, which is what I did. If you use a towel, finish (zig-zag stitch around the edges or serge) the edges, so you won't have an unraveling mess in your dryer.



2. Soak the towels in the Fabric Softener. It takes about a cap full of softener for each towel. The important thing is just to make sure the towel is saturated.
3. Squeeze out the towels of any excess fabric softener.



4. Hang them to dry where they will be out of the way. (laundry room, bathroom or outside) They will take about 3 days to dry fully inside, so your house will be smelling good in the meantime. If you are lucky enough to have a sunny day they will dry in a much shorter time outside.
5. Store them in any old container you have laying around. We used an empty baby wipe container.



6. When the scent fades repeat the process.

DIY CLEANING PRODUCTS FOR DISHES

Homemade Dish Soap

By: Sarah UmmYusuf from [Nature's Nurture](#)

If you are looking for a soap recipe that will get your dishes sparking clean, look no further. Make homemade dish soap that is natural, non-toxic, and easy to make. When you make your own soap, you know that there aren't any unnecessary ingredients or chemicals. This is especially important if you are washing your dishes by hand because you are touching the soap. This DIY dish soap uses only five ingredients and smells great. In fact, you can customize the scent to your liking using essential oils.



Supplies:

- 1 1/4 cups boiling water
- 1/4 cup (tightly packed) castile bar soap, grated
- 1 tablespoon washing soda (use a little more for a thicker soap)
- 1/4 cup liquid castile soap
- 10-30 drops essential oils (optional; I use 20 drops orange and 10 drops tea tree)



Instructions:

1. Add grated castile soap to boiling water and stir until dissolved.



2. Add washing soda and stir.
3. Add liquid castile soap and stir.

4. Let mixture cool, then add essential oils.



5. Transfer to repurposed soap dispenser and use as regular dish soap.



Coffee Grounds Garbage Disposal Deodorizer

By: Stephanie Gerber from [Hello Glow](#)

Nothing ruins the aroma of homemade cooking faster than a stinky garbage disposal. Learn how to get rid of that smell with this recipe for Coffee Grounds Garbage Disposal Deodorizer. With this tutorial, you can use a natural deodorizer to clear up any strange odors coming from your garbage disposal so you won't have to keep pouring chemicals down your drain. This homemade air freshener uses classic cleaning ingredients like baking soda and vinegar to scrub away anything that's causing odors in your sink. Simply drop one of the deodorizers down your sink and rinse to make your kitchen smell good again.



Supplies:

- 1 cup coffee grounds (used or fresh)
- 3/4 cup Epsom salt
- 1/2 cup baking soda
- 3 tablespoons vinegar

Instructions:

1. If you want to be really green, collect your used coffee grounds each morning and sprinkle them out on a plate until they are completely dry. Store them in a zip top bag until you have at least 1 cup. If you want to get started right away, pick up an inexpensive bag of pre-ground coffee at the market.
2. In a medium size mixing bowl, combine coffee, Epsom salt and baking soda and mix well.



3. Slowly add the vinegar. The baking soda will react with the vinegar and start to bubble a little bit, but will subside quickly.
4. Stir the ingredients so the mixture starts to clump together. If your mixture is too dry, add more vinegar (1/2 teaspoon at a time) until it becomes damp enough to form a ball.



5. Using a melon baller or small scoop pack the mixture and create as many little tablets as you can. Lay them out on parchment paper until they are dry, then store in a jar and keep close to your garbage disposal.
6. To Use: Simply drop a tablet or two down your garbage disposal while it's on, rinse with a stream of cold water. To really pack a punch, drop a tablet or two down the disposal and rinse with 1 cup of vinegar.



DIY CLEANING PRODUCTS FOR HOME

Homemade Fridge Odor Removal Spray

By: Petro Neagu from [Creative Homemaking](#)

Use natural ingredients to get rid of stinky refrigerator smells with this Homemade Fridge Odor Remover Spray. Removing household odors is simple with this DIY cleaner. The refrigerator is typically the most used appliance in the kitchen, which means it has ample opportunity to become messy. Even if you keep your food in containers and avoid accidental spills, you can still end up with an unpleasant odor in your favorite kitchen appliance. Combat this stench with ease by mixing up essential oils, white wine vinegar, and water. Easy and quick, this DIY refrigerator cleaner is sure to become one of your go-to homemade cleaning products.



Supplies:

- 12-15 drops of pure essential oil (examples: grapefruit, orange, lemon, and lavender)
- 1/2 cup white wine vinegar
- 1 1/2 cups water
- if you like to make this extra strong, add 2 tablespoons baking soda too – optional
- empty spray bottle



Instructions:

1. If you use baking soda, start by pouring it into a large bowl.
2. Cover with water then add vinegar; it may bubble a little so it's helpful to use a large bowl.
3. Add essential oils.
4. Pour the cleaner into a spray bottle.
5. Spray the inside of the fridge (pending you removed all food previously) and leave on for a few minutes before starting wiping with a damp cloth (use the same cleaner for the cloth)
6. Finish my wiping the fridge with a dry cloth or paper towels.

Wood Floors Homemade Cleaner

By: Jill Nystul from [One Good Thing By Jillee](#)

Wood floors have had a resurgence in the past few years because of their beauty and durability. Instead of spending a fortune on brand name cleaners, try out this budget-friendly Wood Floors Homemade Cleaner. This DIY cleaner for wood floors uses vinegar to clean and deodorize and castile soap to help clean up extra sticky messes. You only need three ingredients to make this easy DIY cleaner and you can make this cleaning solution in no time! Clean your beautiful wood floors at a fraction of the price with this homemade floor cleaner.



Supplies:

- 1 gallon of warm water
- 1 cup of white vinegar
- 1/2 cup of castile soap (optional)



Instructions:

1. In a small bucket, combine the warm water, vinegar, and castile soap. (The soap may “curdle” a bit when it’s mixed with the vinegar, but that’s okay. Just mix it in as best you can.)



2. Depending on what kind of cleaning tool you’re using, you can either dip your mop directly into the bucket, or pour some of the solution into a spray bottle and apply it to your floors that way.



3. After sweeping your wood floors to pick up any dirt, dust, or hair, use the cleaning solution to dissolve and wipe away any spills, mud, or general stickiness. Keep in mind that a little goes a long way, you just need enough liquid to dampen the mop (or cloth.)



DIY Natural Window Cleaner

By: Petro Neagu from [Creative Homemaking](#)

Clean your windows with ease with this DIY Natural Window Cleaner! This natural window cleaner is safe for you, your family, your home, and the environment. Plus, it is sure to keep your windows sparkling and clear. This homemade cleaner is both affordable and simple to make. You will most likely have a lot of the ingredients you need already in your home. Essential oils, water, vinegar, and rubbing alcohol make up this fabulous DIY cleaner. Keep your home clean and safe with this easy natural DIY window cleaner.



Supplies:

- 2 cups water
- 1/2 cup white or cider vinegar
- 1/4 cup rubbing alcohol (70% concentration)
- 1 to 2 drops of orange essential oil, which gives the solution a lovely smell (optional).
- Empty spray bottle

Instructions:

1. Pour all ingredients in an empty spray bottle.
2. Shake well and spray on windows.
3. Immediately wipe with a soft cotton cloth.
4. Leave on for a couple of minutes for extra dirty spots.
5. Shake the bottle before each use.



Homemade All-Purpose Cleaner

By: Tegan Klenner & Lindsay Sjoberg from [Treasures & Travels](#)

If you're tired of spending money on store-bought cleaning products that are made with harmful chemicals and have harsh smells, you should try this Homemade All Purpose Cleaner. You won't believe how easy it is to make, and what a difference it will make in your home and on your budget. All you need for this all-purpose cleaner recipe is citrus peels, vinegar, and water. You'll absolutely love the citrus smells of grapefruit, oranges, and lemons in refreshing and affordable natural cleaning products like this.



Supplies:

- Citrus peels (grapefruit, oranges, and lemons)
- White vinegar
- Jar
- Spray bottle



Instructions:

1. Fill a jar with citrus peels (used here: grapefruit, oranges, and lemons).



2. Pour white vinegar over the peels to fill up the jar.



3. Seal and leave for 1-2 weeks.
4. Separate the peels from the vinegar and dilute it with 1 part water in a spray bottle!



ADDITIONAL DIY CLEANING PRODUCTS

How to Make Hand Sanitizer

By: Sarah UmmYusuf from [Nature's Nurture](#)

This homemade hand sanitizer is actually much healthier for you than the hand sanitizer you buy at the store. Find out how to make hand sanitizer at home with this recipe. This mixture is alcohol-free, which means it only kills the bad bacteria and doesn't dry out your hands. Although washing your hands with soap and water is the best method for cleanliness, this is a great alternative when you are away from soap and water. You can add fragrance as desired using essential oils, which have benefits as well.



Supplies:

- 1 cup pure aloe vera gel (as pure as you can get)
- 1 tablespoon witch hazel
- 30 drops (1/4 tsp) tea tree oil
- 10 drops lavender oil (or essential oil of choice)
- 3-4 drops vitamin E oil (optional)

Instructions:

1. In a small glass dish, add the essential oils and stir.



2. Add the witch hazel and vitamin E oil and stir again.
3. Add the aloe vera gel and mix very well.
4. Using a funnel, pour the mixture into your container of choice.
5. Shake well before using.

Notes:

1. The vitamin E oil helps to soften hands and will extend the shelf life up to 3-4 months. In either case, the sanitizer should be discarded after 6 months.
2. This recipe filled 3 travel size (3 oz) squirt bottles. To fill just one 3 oz bottle, use 1/3 cup aloe vera, 1 teaspoon witch hazel, 10 drops tea tree oil, and 3 drops lavender oil.

How to Make Eyeglass Cleaner

By: Stephanie Gerber from [Hello Glow](#)

Never run out of eyeglass cleaner again with this easy recipe. Learn How to Make Eyeglass Cleaner at home; it's super easy and you'll save money on glasses cleaner. This homemade eyeglass cleaner is just as effective as store-bought and also much, much cheaper. Plus, it's ridiculously simple to make. All you have to do is mix the ingredients together and pour them into a spray bottle. It takes maybe five minutes to make this DIY eyeglass cleaner. It's so straightforward and fast, literally anyone can make this! With this homemade cleaner, you'll never have to run to the store to buy eyeglass cleaner solution again.



Supplies:

- Rubbing alcohol
- Water
- Dish soap
- Small spritz bottle

Instructions:

1. Combine 3 parts rubbing alcohol to 1 part water in the spritz bottle.



2. Add 1-2 drops of dish soap.
3. Swirl mixture together and replace cap.
4. To use, spritz onto glasses and wipe with a soft cotton cloth.



Homemade Cleaners You'll Love: 10 DIY Homemade Cleaning Products



Special Thanks:

Brenna from [Life After Laundry](#)
Sarah UmmYusuf from [Nature's Nurture](#)
Stephanie Gerber from [Hello Glow](#)
Petro Neagu from [Creative Homemaking](#)
Jill Nystul from [One Good Thing By Jillee](#)
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