



Material Safety Data Sheet

Date Prepared: 2/11/08

Supersedes: 12/26/07

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Products: **ARSECO – 22 and 22X**

Manufacturer/Supplier: Riverside Chemical Company
Address: 871 River Road
North Tonawanda, NY 14120

General Assistance: 716/692-1350
e-Mail Contact: MSDS@rivchem.com
24 Hour Emergency: 800-424-9300 (Chemtrec)

Chemical Name: Water-Based Heavy Duty Cleaner
Chemical Family: N/A (Blended Product)
Chemical Formula: N/A (Blended Product)
Molecular Wt.: N/A (Blended Product)
CAS No.: N/A (See Section 3 for blend components)
Product Use(s): All-Purpose Heavy Duty Cleaner

2. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! May cause respiratory tract irritation. May cause eye and skin irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea.

The following information is provided for people trained in the HMIS[®] (*Hazardous Materials Identification System*) program. These ratings should be used with a fully implemented program.

<u>HMIS Rating</u>		<u>Key</u>	
Health:	2	0 = Minimal	3 = Serious
Flammability:	0	1 = Slight	4 = Severe
Reactivity:	0	2 = Moderate	* = Chronic

Routes Of Entry:

Inhalation Eyes
 Skin Ingestion

Target Organs: Eyes, skin, respiratory tract, gastrointestinal tract.

Irritancy: Liquid, vapors or mist may be irritating to eyes, skin and respiratory tract.

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A Responsible Distribution ProcessSM Company

Sensitizing Capability: None known.

Reproductive Effects: None known.

Cancer Risk: None known.

Short-Term Exposure (Acute)

Inhalation:

May cause respiratory irritation.

Exposure to vapor, mist or liquid can produce burns of the respiratory tract. Severe exposure could result in chemical pneumonia.

Eyes:

Liquid or vapor contact with the eyes will cause irritation and if not removed promptly, may result in tissue damage.

Skin:

A moderate skin irritant with potential for skin damage upon excessive and prolonged contact.

Ingestion:

Material is moderately toxic. Ingesting large amounts may cause injury.

Repeated or Long-Term Exposure (Chronic)

No known chronic effects with this product when used as directed.

Synergistic Materials: None known.

Medical Conditions Aggravated by Exposure:

Preexisting skin and eye disorders may be aggravated by exposure to this product.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components/ Common Names	CAS No.	Percent (wt.)	OSHA Hazard*	Exposure Limits
2-Butoxyethanol Ethylene Glycol Monobutyl Ether	111-76-2	1 - 10%	Yes	PEL = 25 ppm, skin TLV = 20 ppm, skin
Ethoxylated Alcohols Nonionic Emulsifier	68439-46-3	1 - 10%	Yes	PEL = not established TLV = not established
Sodium Hydroxide Caustic Soda	1310-73-2	0.1 - 5%	Yes	PEL = 2 mg/m ³ ceiling TLV = 2 mg/m ³ ceiling
Chelating Agent	N/A	0.1 - 5%	Yes	PEL = not established TLV = not established
Terpene Alcohols & Hydrocarbons	mixture	0.1 - 5%	Yes	TLV (inhale) = 3 mg/m ³ TLV (total) = 10 mg/m ³
Inert Ingredient(s)	7732-18-5	80 - 90%	No	PEL = not established TLV = not established

* Some individual components are hazardous when considered in their full strength. This does not imply that they will impart a significant risk when used as a fractional part of a blended product.

4. FIRST AID MEASURES

Eyes:

Immediately flush eyes with a direct stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. If irritation persists, GET MEDICAL ATTENTION IMMEDIATELY.

Skin:

If substantial contact or irritation occurs, flush thoroughly with a large quantity of cool water under a shower while removing contaminated clothing and shoes. Use soap if available. Wash clothing before reuse. If irritation persists, GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

Inhalation:

Using proper respiratory protection, remove the affected victim to fresh air. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion:

Never give anything by mouth to an unconscious person. If swallowed, DO NOT INDUCE VOMITING. Rinse mouth of any residual chemical, then give large quantities of water. If available, give several glasses of milk. If vomiting occurs spontaneously, keep airway clear and give more water. Keep person at rest and GET MEDICAL ATTENTION IMMEDIATELY.

Notes To Physician:

No special procedures. Treat for clinical symptoms.

5. FIRE FIGHTING MEASURES

Flash Point, TCC (°F): Non-flammable

Autoignition Temperature (°F): Non-flammable

Flammable Limits in Air (% Vol.):

Upper (UEL): Non-flammable

Lower (LEL): Non-flammable

General Hazards:

Non-flammable. Address surrounding fire. Sealed containers may rupture when heated.

Extinguishing Media:

Non-flammable. Use extinguishing media appropriate for the surrounding fire.

Fire Fighting Procedures:

Use water spray to cool fire exposed containers and to protect response personnel.

Clear area of unnecessary and unprotected personnel. Fire fighters should wear full protective equipment. Toxic gases will form upon decomposition. Wear NIOSH/MSHA approved positive-pressure self-contained breathing apparatus and full protective clothing.

Fire and Explosion Hazard: None known.

Sensitivity to Mechanical Impact: Not sensitive.

Sensitivity to Static Discharge: Not sensitive.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

In the event of a major release, unnecessary personnel should be evacuated from the area. Those responding to the incident must wear protective equipment appropriate to the hazards, i.e., rubber boots, gloves and goggles. Follow additional protective measures provided under Personal Protection in Section 8.

Environmental Precautions:

According to 40 CFR 302 Table 302.4 (CERCLA), environmental releases that exceed the RQ must be reported to the National Emergency Response Center by calling 800-424-8802 (202-426-2675) and the State Emergency Response Commission and the Local Emergency Planning Committee (40 CFR 355.40) as appropriate. Based on a 5% sodium hydroxide content, it would require a release of at least 20,000 lb. to meet this requirement.

Liquid materials should be diked to prevent their flow to the ground or waterways. If it can be done safely, stop or control any continued release of material from its normal containment (i.e., close valve or invert a leaking drum).

Methods for Cleaning Up:

Large Spills: Dike area to prevent flow to the ground or waterways. Try to recover product by pumping into marked containers for future use or disposal. Dilute any remaining residue with a large volume of water and dispose of in accordance with local, state and federal regulations. Large leaks may require additional environmental considerations and possible evacuation.

Small Spills: Dilute spill area with a large volume of water and dispose of in accordance with local, state and federal regulations.

For additional information on disposal, see Section 13.

7. HANDLING AND STORAGE

Do not take internally. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation and minimize breathing mist or vapors. Wash thoroughly after handling all chemical products. Wash contaminated clothing before reuse.

Although it would not normally be needed, wear a NIOSH or MSHA approved respirator in misty conditions or areas with elevated exposure levels. When handling, wear proper protective equipment including impervious gloves, full-length clothing, and rubber boots. Also wear goggles or face shield as appropriate.

Keep in tightly closed and properly labeled containers. Store containers in a cool, dry, well-ventilated storage area, away from incompatible materials. (See Section 10) Minimize material from exposure to direct sunlight.

Containers, even those that have been emptied, will retain product residue and/or vapor. Until they are thoroughly cleaned by a competent reconditioner, containers should be handled as if they were full. Returnable containers must comply with all DOT, federal, and state regulations. They should have a legible label and be thoroughly emptied (less than 1 inch of residue) and properly sealed prior to their return. Once emptied, they should be returned to Riverside Chemical or a reputable drum reconditioner. Smaller containers, i.e., 1 and 5 gallon, are not returnable. These containers should be triple rinsed with water and then disposed of in a trash receptacle. The rinse water should be collected and used when making future dilutions of this product.

Recommended Storage Temperature:

Store at normal room temperatures to prevent product from freezing.

Recommended Shelf Life:

This product is stable and when stored indoors in its original sealed container under ideal conditions, it should be good well in excess of a year. However, as with all chemical storage, First-In, First-Out (FIFO) inventory practices should be implemented.

Special Mixing and Handling Instructions:

None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:

No special ventilation is required under normal conditions of use. Provide mechanical ventilation of confined spaces or wherever mist, spray or vapor may be generated to maintain below the PELs and TLVs listed in Section 3.

Personal Protection

Respiratory:

Respiratory protection is not required under normal conditions of use. When concentrations in air may exceed the recommended exposure limits, wear a NIOSH/MSHA approved respirator following the manufacturer's recommendations.

Eye/Face:

Wear chemical safety goggles when handling this product, especially when there is a potential for splashing. (ANSI Z87.1) The additional use of a face shield may be appropriate in areas having a high probability of splashing.

Skin:

Wear chemical resistant gloves such as rubber, neoprene or vinyl. Wear full-length protective clothing to minimize skin contact. Thoroughly wash contaminated clothing before reuse.

Other:

Emergency shower and eyewash facilities should be in close proximity. (ANSI Z358.1)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Clear, nearly colorless liquid with a pleasant fragrance of pine

Odor Threshold: Unknown

Specific Gravity @ 20°C (Water = 1): 1.01

Density, lb./gal. @ 20°C: 8.4

Boiling Point @ 760 mm Hg: Initial = 212°F
Dry = >400°F

Freezing Point (estimate): <32°F

Vapor Pressure, mm Hg @ 20°C (calculated): 14.8

Vapor Density (Air = 1): >1

Evaporation Rate, n-BuAc = 1 (estimate): <0.3

Percent Volatiles by Wt.: 93%

VOC, as supplied (g/l by Wt.): 79

Solubility in Water @ 20°C (by Wt.): 100%

Viscosity @ 20°C, cSt (estimate): 1

pH as supplied: 13.1

5% solution: 12.5

1% solution: 11.5

Octanol/Water Partition Coefficient: Not Available

Thermal Decomposition Temperature: Not Available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable Unstable

Reacts With: Air Oxidizers Metals
 Water Acids Other
 Heat Alkalis None

Hazardous Polymerization: Occurs Will Not Occur

Conditions to Avoid:

Avoid strong oxidizing agents and strong acids.

Comments:

Also see Handling and Storage. (Section 7)

Hazardous Decomposition Products:

None known.

11. TOXICOLOGY INFORMATION

No specific data is available on this blended product. See Section 2 for available information on potential health effects.

12. ECOLOGICAL INFORMATION

No specific ecological data are available for this blended product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

Environmental Fate Data

There is limited information available on the environmental fate of this blended product.

13. DISPOSAL CONSIDERATIONS

Note: Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts.

In the event of a spill, ensure that all appropriate agencies receive proper notification as required, including the disposal methods. Package, store, transport, and dispose of all waste materials and contaminated equipment in accordance with all applicable federal, state and local regulations. Shipments of waste materials may be subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of each waste material and should be done by a competent and properly permitted contractor.

RCRA Hazardous Waste:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste should be tested for corrosivity and other possible characteristics based on probable contaminants, to determine if an EPA hazardous waste number is applicable. As supplied, Riverside's ARSECO – 22 and 22X are classified as a RCRA Characteristic Hazardous Waste D002 due to Corrosivity.

Also refer to Sections 5, 6, and 15 for additional information.

14. TRANSPORTATION INFORMATION

Domestic Shipments:

DOT Identification Number: NA1760
DOT Proper Shipping Name: Compound, Cleaning Liquid, (sodium hydroxide)
DOT Hazard Class: 8
DOT Packing Group: II

International Shipments:

DOT Identification Number: UN1760
DOT Proper Shipping Name: Corrosive Liquids, n.o.s., (sodium hydroxide)
DOT Hazard Class: 8
DOT Packing Group: II

DOT Reportable Quantity (RQ): Not Applicable in quantities supplied

DOT Marine Pollutant(s): Not Applicable

Additional Requirements: Not Applicable

15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the date prepared. However, no warranty, expressed or implied, is given. Regulatory requirements are complex and subject to change. They may also differ from one location or application to another. It is the buyer's responsibility to ensure that their activities comply with all federal, state or provincial, and local laws.

U.S. Federal Regulations:

This product is hazardous as defined in OSHA Standard 29 CFR 1910.1200. As a result, this information must be provided to employees regarding the hazards of this chemical by means of a hazard communication program, including: labeling, Material Safety Data Sheets (MSDS), training and access to written records. We request that you make all information in this MSDS available to your employees.

EPA TSCA Inventory All necessary components of this blend appear
CERCLA Section 103 Yes – 20,000 lb. due to sodium hydroxide
SARA Section 302 No
SARA Section 304 No
SARA Hazard Categories: Section 311/312
 Acute Hazard Yes (Corrosive)
 Chronic Hazard No
 Fire Hazard No
 Reactivity Hazard No
 Sudden Release Hazard No
SARA 313 Chemicals Yes (2-Butoxyethanol CAS #111-76-2)

State Regulations:

Consult with your state regulatory agencies to determine which regulations may apply to the use of this product in your particular application.

Canada:

WHMIS Classification Not determined
Domestic Substance List (DSL) Not determined

16. OTHER INFORMATION

This Material Safety Data Sheet was produced from a variety of reliable technical and industry sources. However, it is provided without representation or warranty expressed or implied regarding accuracy or correctness. Conditions of use are beyond the control and knowledge of Riverside Chemical Company, who does not assume any responsibility and expressly disclaims liability for injury, loss, damage or expenses arising from the use of this product.

Abbreviations used throughout this document include:

ACGIH = American Conference of Governmental and Industrial Hygienists

ANSI = American National Standards Institute

CAS No. = Chemical Abstracts Service Registry Number

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act

CFR = Code of Federal Regulations

cSt = Centistokes (Unit of Viscosity Measurement)

DOT = (US) Department Of Transportation

g/l = Grams per Liter

HMIS = Hazardous Materials Identification System

(As developed by the National Paint and Coatings Association - NPCA)

lb. = US Pounds

LEL = Lower Explosive Limits (Flammability Limits in Air)

m³ = Meter Cubed (or Cubic Meter)

mg = Milligrams

mm Hg = Millimeters of Mercury (Related to Pressure)

MSDS = Material Safety Data Sheet

MSHA = Mine Safety and Health Administration

N/A = Not Applicable (in some cases it could mean the data is Not Available)

n-BuAc = n-Butyl Acetate (An Evaporation Rate Scale)

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit (OSHA)

PPE = Personal Protective Equipment

ppm = Parts Per Million

RCRA = Resource Conservation and Recovery Act

RQ = Reportable Quantity

SARA = Superfund Amendments and Reauthorization Act

TCC = Tag Closed Cup (Flash Point Test Method)

TLV = Threshold Limit Value (ACGIH)

TSCA = Toxic Substances Control Act

UEL = Upper Explosive Limits (Flammability Limits in Air)

VOC = Volatile Organic Compound (Related to Air Pollution Potential)

WHMIS = Workplace Hazardous Materials Information System (Canada)

For additional non-emergency information, you may call 716-692-1350 or write to:

Riverside Chemical Company
P.O. Box 197
North Tonawanda, NY 14120-0197

Revision Summary:

Revision:	Sec/Para Changed	Change Made:	Date
0	N/A	Initial issue of document	–
1	Entire document	Extensive updates of the original 9-part document to the new 16 part format.	9/27/02
2	3 & 16	Minor corrections to HMIS	12/6/02
3	15	Correction to indicate that this product “is” an OSHA hazardous material	12/18/03
4	14	Updated DOT Proper Shipping Name for domestic shipments.	1/20/04
5	1, 2, 3 & 14	Add e-mail address, switch order of sections 2 & 3, and switch order of DOT shipping name to comply with Global Harmonization guidelines.	12/26/07
6	8 & 11	Correct references to sections 2 and 3 that were switched in December.	2/11/08