MATERIAL SAFETY DATA SHEET

Clear Image

12/01/07

Product Name: Clear Image Radiographic Cleaner

HMIS Codes: H F R P
1 0 0 X

SECTION I: Manufacturer Identification

Manufacturer's Name: **Atyeo Company, Inc.**
P.O. Box 603
Pendleton, SC 29670

Information Phone: (888) 670-1676

Date Revised: 12/01/2007
Prepared by: EHS Department

SECTION II: Hazardous Ingredients/SARA III Information

REPORTABLE COMPONENTS	CAS NUMBER	WEIGHT PERCENT
Sodium Hydroxide (Caustic Soda) OSHA PEL: 2mg/m3 Ceiling Limit ACGIH TLV: 2mg/m3 Ceiling Limit	1310-73-2	<1.8%
2-Butoxyethanol OSHA PEL: 50 ppm ACGIH TLV: 20 ppm	111-76-2	3.5%

The following items are considered non-hazardous by OSHA:

Tetrasodium Ethylene Diaminetetracelate	64-02-8	<3%
Anionic and nonionic surfactants	Various	Proprietary

SECTION III: Hazards Identification

Inflation Health Risks and Symptoms of Exposure
Inhalation may cause inflammation of mucous membranes and irritation.

Eye Contact Health Risks and Symptoms of Exposure
Causes pain, reddening and swelling of the conjunctiva.

Skin Absorption Health Risks and Symptoms of Exposure
May cause irritation similar to a rash with localized edema, reddening and raised lesions.

Ingestion Health Risks and Symptoms of Exposure
There is no direct data available pertaining to the hazards associated with ingestion of this product. As with most chemicals, ingestion may cause gastrointestinal irritation accompanied by nausea, vomiting and diarrhea.

SECTION III: Hazards Identification (cont.)

Health Hazards (Acute and Chronic)
This material is considered an acute health hazard under the provisions of the Occupational Safety and Health Act.

Carcinogenicity: **NTP Carcinogen**: NO
IARC Monographs: NO
OSHA Regulated: NO

Medical Conditions Generally Aggravated by Exposure
There is no direct data available pertaining to aggravation of existing medical conditions by this product.

SECTION IV: First Aid Measures

Eyes:
Immediately flush eyes with plenty of cool, clean water for at least 15 minutes. Keep eyelids apart to maintain maximum contact with the water. Do not allow the individual to rub their eyes. Get immediate medical attention.

Skin:
Remove contaminated clothing and foot wear. Wash thoroughly with water and do not reuse clothing until properly cleaned. Discard foot wear. If a rash should develop, get medical attention.

Inhalation:
Immediately remove individual to fresh air. If individual has stopped breathing, give artificial respiration. Get immediate medical attention.

Ingestion:
If victim is conscious and able to swallow, quickly have victim drink water or milk to dilute. Do not give anything by mouth if victim is unconscious or is having convulsions. Induce vomiting only if advised to do so by a physician or poison control center. CONTACT A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SECTION V: Fire and Explosion Hazard Data

Flash Point: >212 Degrees F **Method Used:** Tag Closed Cup
Flammable Limits in Air by Volume - Lower: N/A **Upper**: N/A

Extinguishing Media:
Use water spray, dry chemicals, foam or carbon dioxide. Do not flush into a storm drain or public sewer.

Special Firefighting Procedures:
Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Use self-contained breathing apparatus (SCBA) and proper personal protection clothing.

Unusual Fire and Explosion Hazards:
None noted.

SECTION VI: Accidental Release Measures

Steps to be Taken in Case Material is Released or Spilled:
Land Release:
This material may cause ground water contamination. Contain as much material as possible. Begin a containerization process as soon as practical. Rinse spill area with water after cleanup is complete and containerize all rinse water.

Air Release:
Vapors may be suppressed by the use of a water fog. Contain all run-off water for proper disposal.

Water Release:
This material is soluble/dispersible in water. Stop source of spill if safe to do so. Divert all flow and contain. Remove and containerize or neutralize in place, then remove for proper disposal.

SECTION VII: Handling and Storage

Precautions to be Taken in Handling and Storing:
This material is safe to store in well-ventilated areas at ambient temperatures. Keep containers closed when not in use to prevent evaporative losses and possible contamination.

Other Precautions:
Eye wash and safety showers are recommended in the immediate work area. Check with your state OSHA to determine the need and maximum distance for stations to be placed in regards to possible chemical exposure.

SECTION VIII: Control Measures

Respiratory Protection:
If air contaminants exceed a TLV, PEL or STEL, use a NIOSH-MSHA approved full face, air purifying respirator with appropriate cartridge or a self-contained breathing apparatus (SCBA). Respirators and cartridges should be selected based on the form and concentration of the contaminants in accordance with applicable regulations.

Ventilation:
Normal ventilation has been found to be generally adequate. The end user must determine if the process or methods involved with the use of this material requires any additional or special ventilation.

Protective Gloves:
Rubber, butyl, neoprene or plastic gloves should be worn when using this material to avoid skin contact.

Eye Protection:
Safety glasses with side shields are recommended.

Other Protective Clothing or Equipment:
Not generally required under normal working conditions. The end user must determine if the process or methods involved require other personal protection clothing and/or equipment.

Work/Hygienic Practices:
Do not eat, drink, or smoke in areas where chemicals are being stored or handled. Wash thoroughly before handling food or beverages.

SECTION IX: Physical/Chemical Characteristics

Boiling Point: >212 Degrees F
Vapor Density: Heavier than air
pH: 12.7-13.2
Solubility in Water: INFINITE
Appearance and Odor: Clear with mild citric odor.

Specific Gravity (H2O =1): 1.00 Typical
Evaporation Rate: Equal to Water
Percent Volatiles: ~90

SECTION X: Reactivity Data

Stability: Stable

Conditions to Avoid: None known or noted.

Incompatibility (Materials to Avoid): Avoid strong oxidizing agents, strong acids, active metals such as aluminum and magnesium.

Hazardous Decomposition or By-products: Oxides of carbon.

Hazardous Polymerization: Will not occur.

SECTION XI: Toxicological Information

Results of Toxicity Testing: No information is available.

SECTION XII: Ecological Information

Environmental Impact of Material: No information is available.

SECTION XIII: Disposal Considerations

Waste Disposal Methods
Dispose of material in an approved chemical waste landfill or incinerate in accordance with applicable Federal, State and local regulations. Since emptied containers retain material residues, all labeled hazard precautions must be observed.

SECTION XIV: Transportation Information

This Material is Regulated by the D.O.T. (Y/N): N

D.O.T. Description from Hazardous Materials Table 49 CFR 172.01: Not regulated.

Reportable Quantity if Applicable: 1,000 pounds

SECTION XV: Regulatory Information

CERCLA
The Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4.
Components present in the product at a level which could require reporting under this statute are: Sodium Hydroxide RQ 1,000 pounds.

SARA Title III, Section 302 and 304
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 302 requires notification of the State Emergency Response Commission (SERC) and the Local Emergency Planning Committee (LEPC) of the presence of Extremely Hazardous Substances (EHS), 40 CFR 355 Appendix A, in amounts in excess of the threshold planning quantity (TPQ). Section 304 requires notification of the SERC and LEPC of releases involving a RQ of an EHS or CERCLA Hazardous Substance. CERCLA RQ materials are listed in SECTION 15 - Regulatory Information under the CERCLA heading.
EHS contained in this product are: NONE

SARA Title III, Section 311 and 312
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 311 and 312 require reporting based on regulations promulgated in 40, CFR 372. Health Hazards are identified in SECTION 3 - HAZARDS IDENTIFICATION.
Other applicable classifications are: NONE

SARA 313
The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (FOR SARA 313). This information must be included in all MSDS's that are copied and distributed for this material/ Refer to SECTION 2 HAZARDOUS INGREDIENTS/SARA III INFORMATION for components that are subject to reporting.

Other Regulations
TOXIC SUBSTANCES CONTROL ACT (TSCA) Status:
All the ingredients of this product are on the TSCA inventory.
VOC's < 4% by weight.

SECTION XVI: Additional Information

Definition of abbreviations utilized in this Material Safety Data Sheet:
N/A = Not Applicable; N/E = Not Established; UNK = Unknown; N/D = Not Determined; EHS Department = Environmental, Health and Safety Department; OSHA = U.S. Occupational Health and Safety Administration; ACGIH = American Conference of Governmental Industrial Hygienists, Threshold Limit Values and Exposure Limit; STEL = Short Term Exposure Limit; PNOC = Particulates Not Otherwise Classified; PNOR = Particulates Not Otherwise Regulated; < = Less than; > = Greater than.

Please note: The Hazardous Material Identification System (HMIS), is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical and associated risks. The end user must determine if the code is appropriate for their use.

The regulatory listings provided herein are not inclusive all possible regulations affecting this material. It is the end user's responsibility to determine all local, state, federal or international regulations/restrictions that may apply.

SECTION XVII: Disclaimer

This information related to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.