

Specifications **AGR Adhesive and Glue Remover** **5 gallon Pail, 55 gallon Drum**

| | |
|---------------------|---|
| Appearance: | Clear |
| Odor: | Minimal/Bland |
| Boiling Point: | >300°F |
| Vapor Density: | Heavier than air |
| pH: | Neutral |
| Flash Point: | >164 F (TCC) |
| DOT Shipping Class: | 55 |
| Shipping Weight: | 5 gal. pail 35lbs. 55 gal. drum 386lbs |
| Specific Gravity: | >0.94-0.95 |
| Solubility: | 50% |
| Reactivity: | Stable |
| HMS Rating: | 2-0-0 |
| Shelf Life: | 2 years |

DOT Shipping Name: **COMBUSTIBLE LIQUID, N.O.S. (ESTER BLEND) COMBUSTIBLE LIQUID, NA1993, PG II**

DOT Hazard Label:
 Less than 110 gallons_
110 gallons or more per container - COMBUSTIBLE

Twin-Chemicals
Atlanta, Georgia

(800) 442-4958
(770) 924-6147 fax

www.twin-chemicals.com



Twin Chem AGR is a unique product designed to remove most carpet adhesives and glues as well as most linoleum adhesives. Twin Chem AGR will also remove black asphaltic cut back. Twin Chem AGR is biodegradable and environmentally friendly and contains no petroleum distillates or hazardous solvents. Twin Chem AGR will also remove black asphaltic cut back mastic.

Directions:

1. Read and understand material safety data sheet when using this product. **Use full strength. Do not dilute.** Apply manually or with garden sprayer to small areas. Once adhesive/glue has been cut, take up material as quickly as possible to prevent excessive penetration into the substrate.
2. Allow as much time as necessary to let **Twin Chem AGR** penetrate and soften the adhesive/glue, usually within one hour, longer soak time may be needed to remove some adhesives/glues, sometimes in excess of 2 to 3 hours.
3. Work in **Twin Chem AGR** using a stiff bristle broom, floor buffer, or other type of scrubbing equipment. A variety of methods may be used to take up the liquefied adhesives/glues, such as an Auto Scrubber or using a stiff bristled broom, squeegee and/or wet vacuum. Use of scrapers may be required to scrape adhesive from the substrate.
4. Once the slurry has been cleaned up, **aggressively clean the surface with water and detergent (slab cleaner)**. All liquefied materials should be disposed of properly. Be sure to not allow the **Twin Chem AGR**, or the slurry generated, to come into contact with any areas which may absorb the liquids such as sheetrock, woodwork, etc. or drains. Cover and dike these areas.
5. **Twin Chem AGR and all slurry should be cleaned up and the surface should be dry before polishing, grinding or staining. Ample time should be allowed before applying mastics or adhesives to insure that all volatiles have evaporated.**



TWIN CHEMICALS, INC.

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 www.twin-chemicals.com
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TWIN-CHEM A-G-R

HAZARD RATINGS NFPA HMIS DATA

| | | |
|------------|---|-------------------------|
| HEALTH | 2 | 0= MINIMAL 1= SLIGHT |
| FIRE | 0 | 2=MODERATE 3=HIGH |
| REACTIVITY | 0 | 4=EXTREME |

SECTION I

MANUFACTURED BY: Twin-Chemicals, Inc.
ADDRESS: 6175 Hickory Flat Hwy. Suite 110-344
Canton, GA 30115
EMERGENCY PHONE NUMBER: (800) 552-3787 (CERTS CHEMICAL EMERGENCIES ONLY)
PHONE NUMBER FOR INFORMATION: (800) 442-4958
DATE REVISED: September 14, 2011
NAME OF PREPARER: SALIENT CORPORATION

CLIFFORD M. CANTRELL

SECTION II HAZARDOUS INGREDIENTS/INFORMATION

| INGREDIENT | CAS NO. | OSHA PEL | ACIGH TLV | OTHER STEL | % OR RNG | S K | 31 |
|-----------------|----------|-------------|-------------|-------------|----------|-----|----|
| 2-Butoxyethanol | 111-76-2 | 25 ppm (SK) | 25 ppm (SK) | 50 ppm (SK) | < 7.5 | ▲ | ▲ |

NOTE: AN "▲" UNDER 'SK' (SKIN) INDICATES THAT OSHA REQUIRES SKIN PROTECTION TO PREVENT OR REDUCE EXPOSURE TO THIS INGREDIENT. AN "▲" UNDER 313 INDICATES THAT THE MARKED ITEM IS A SUBSTANCE SUBJECT TO SARA TITLE III, SECTION 313 REPORTING. SEE SECTION IX FOR SPECIFIC REPORTING REQUIREMENTS.

EPA HAZARD CATEGORIES ACUTE HEALTH - CHRONIC HEALTH - REACTIVE SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point > 292°F Specific Gravity (H2O=1) > 0.94 – 0.95
Vapor Pressure (mm Hg) 0.9 @ 68°F Melting Point < N/A
Vapor Density (Air=1) 4.15 Evaporation Rate (Water=1) > 1.0
Solubility in Water: 50%
Appearance and odor: CLEAR LIQUID WITH BLAND ODOR.
VOC: None

SECTION IV - FIRE AND EXPLOSION HAZAR

Flash Point (Method Used): 164 °F Flammable Limits: LEL: N/D UEL: N/D
Extinguishing Media: WATER FOG, CO₂, ALCOHOL FOAM.
Special Fire Fighting Procedures: COMBUSTION BYPRODUCTS MAY BE TOXIC. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING WHEN FIGHTING FIRES INVOLVING THIS PRODUCT.
Unusual Fire and Explosion Hazards: WATER STREAM OR WATER FLOODING MAY CAUSE FIRE TO SPREAD BY FLOATING.

SECTION V- REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Do not mix with other materials unless instructed to do so by the manufacturer..
Hazardous Decomposition or Byproducts: Heat, carbon dioxide, various unidentified organic materials from fire.
Hazardous Polymerization: Will Not Occur

SECTION VI- HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? YES Skin? YES Ingestion? YES Eyes? YES
Health Hazards (Acute and Chronic): May irritate eyes.
Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO
Signs and Symptoms of Exposure:
INHALATION: Irritation of respiratory system with possible difficulty in breathing.

INGESTION: May cause gastric distress, chemical burns, diarrhea and vomiting. Product has low oral toxicity (LD₅₀ > 4090 mg/kg, rat) but might be aspirated into lungs.

SKIN CONTACT: Not an irritant.

EYE CONTACT: Irritant.

Medical Conditions Generally Aggravated by Exposure: Unknown

Emergency and First Aid Procedures:

INGESTION: Administer large quantities (3 – 4 large glasses) of water. Induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Remove victim to fresh air. If breathing does not return to normal, GET MEDICAL ATTENTION.

EYE CONTACT: Immediately flush eyes in clear running water for at least 15 minutes lifting upper and lower lids periodically. GET MEDICAL ATTENTION.WITHOUT DELAY

SKIN CONTACT: Wash with soap and water. If irritation results, apply skin cream.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:

LARGE SPILLS: Use sand, other inert absorbant or a pump. Transfer spill to sealable containers for disposal in an approved waste site. Rinse area with water.

Waste Disposal Method: DISPOSE OF WASTE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. ALTHO UNCONTAMINATED PRODUCT DOES NOT MEET THE U.S. EPA RCRA DEFINATION OF HAZARDOUS WASTE, USED PRODUCT MAY DEPENDING UPON CONTAMINANTS. PRODUCT MAY BE OFFERED FOR FUEL BLENDING/INCINERATION.

Precautions to Be Taken in Handling and Storing: Keep container tightly closed when not in use.

Other Precautions: KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

SECTION VIII- Control Measures

Respiratory Protection (Specify Type): Not required when adequate ventillation exists.

Ventilation: Local exhaust recommended.

Protective Gloves: Rubber or neoprene.

Eye Protection: Chemical goggles.

Other Protective Clothing or Equipment: As required to prevent direct skin contact. Solventproof footwear recommended. Wash contaminated clothing before rewearing.

Work/Hygienic Practices: Use good housekeeping practices. Wash hands before smoking, eating or using restroom.

SECTION IX - Additional Information

ENVIRONMENTAL

BIODEGRADABILITY: BIODEGRADABLE.

WASTE DISPOSAL METHODS: DISPOSE OF IN AN AUTHORIZED WASTE FACILITY IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

ADDITIONAL INFORMATION

EMPTY CONTAINER HANDLING:

WARNING! EMPTIED CONTAINER RETAINS PRODUCT RESIDUE. OBSERVE ALL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED. KEEP EMPTY CONTAINER CLOSED TIGHTLY.

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302- EXTREMELY HAZARDOUS SUBSTANCES

REPORTING NOT REQUIRED

SECTION 304- HAZARDOUS RELEASES

REPORTING NOT REQUIRED

SECTION 311- COMMUNITY RIGHT TO KNOW (R-T-K)

REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.

SECTION 312- R-T-K INVENTORY DATA

REPORTING REQUIRED FOR INVENTORY ABOVE TPQ.

SECTION 313- EMISSIONS AND RELEASE

REPORTING MAY BE REQUIRED ONLY FOR USERS WITHIN THE MANUFACTURING SECTOR (S.I.C. 20 – 39)

CERCLA

SAME AS SECTION 304

REFERENCES

TOXIC SUBSTANCE CONTROL ACT LIST (TSCA) - INGREDIENTS LISTED.

PERMISSIBLE EXPOSURE REFERENCES:

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES
TITLE 29 CODE OF FEDERAL REGULATIONS
NATIONAL TOXICOLOGY PROGRAM (NTP) REPORT ON CARCINOGENS
INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS

REGULATORY STANDARDS:

DOT TITLE 49 CODE OF FEDERAL REGULATIONS 172.101

SARA TITLE III

NUCLEAR REGULATORY AGENCY

DOT SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (ESTER BLEND) COMBUSTIBLE LIQUID, NA1993, PG II

DOT HAZARD LABEL: UNDER 110 gallons/container – NONE
110 gallons or more per container - COMBUSTIBLE

This document complies with O.S.H. A. requirements under 29CFR 1910.1200

THE INFORMATION CONTAINED HEREIN is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.