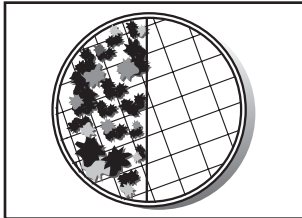


# CLAUSEN CARPET SOLUTIONS

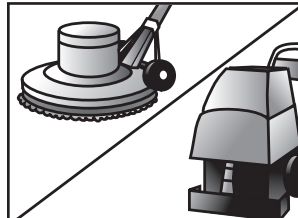
## DUAL \*SANITIZING/DEODORIZING CARPET CLEANER



**KILLS PUTREFACTIVE  
BACTERIA**



**REGISTERED BY THE  
UNITED STATES EPA**



**FOR EXTRACTION  
AND BONNET USE**



**REMOVES GREASY SOIL  
WITHOUT SOLVENTS**

### DESCRIPTION

\*Effective as a sanitizing agent putrefactive bacteria. Low foam with built-in defoaming action for use with all models of extraction, carpet "steam cleaning" and bonnet equipment. Fortified with a proven odor counteractant. Based on patented technology for removing greasy soil without need for solvents.

### USES

Safe for use on colorfast carpeting, but particularly recommended for cleaning and sanitizing carpets in nursing homes, locker rooms, restaurants, etc. Where putrefactive bacteria and unpleasant odors can be a problem. Like most sanitizing products DUAL is cationic and is not recommended for use on stain resistant carpeting.

### BENEFITS

**ERASES FOUL ODORS** - Modern quaternary ammonium compounds eliminate many foul odors at their source by killing putrefactive bacteria. A proven odor counteractant erases odors already in the air.

**EPA REGISTERED** - Clausen DUAL has been granted Federal EPA Reg. No. 1459-74-49691 attesting to the government's review and acceptance of the products label claims.

**VERSATILE** - Cleans, sanitizes and deodorizes when used for either extraction or bonnet cleaning.

**DEEP CLEANING** - DUAL is based on patented technology for emulsifying heavy, greasy soil without need for solvents. Quickly and safely penetrates, dissolves and lifts petroleum, animal and vegetable oils and greases.

### PACKAGING

Available in gallon containers.



### HOW TO USE:

**FOR EXTRACTION:** Dilute at two ounces per gallon of water. Inject and extract as you would with ordinary products.

**FOR BONNET CLEANING:** Mix one part DUAL with eight parts warm water (1pt. per gal.). Spray on carpet at rate of 200-300 sq. ft. per gal. Scrub with a 175 rpm machine equipped with spray-clean bonnet. For best result use a microfiber bonnet.

### SPECIFICATIONS

TYPE DETERGENTS.....	non-ionic
SOLUBILITY IN HARD WATER.....	complete
COLOR.....	light amber
ODOR.....	Airicide®
FLASH POINT.....	none, non-flammable
ph-CONCENTRATE.....	12.5 ± 0.5
ph-1:64 USE DILUTION.....	11.0 + 0.5
SODIUM DODECYL SULFATE.....	none
FOAMING.....	low
SHELF LIFE.....	one year at room temperature
EPAREGISTRATIONNUMBER.....	1459-74-49691

### DISTRIBUTED BY:

# MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

## SECTION 1 - PRODUCT IDENTIFICATION

Distributor Clausen Marketing Associates	Emergency Phone 800-255-3924
Address P.O. Box 37 Folcroft, PA 19032	
Trade Name DUAL	Product Type Sanitizing/Deodorizing Carpet Cleaner

## SECTION 2 - HAZARDOUS INGREDIENTS

CHEMICAL NAME/Common Name	CAS NO.	PERCENT (optional)	TLV (Source)
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorides	68391-01-5	1.0	Not Established
n-Alkyl (50% C12, 30% C14, 17% C16, 3% C18) dimethyl ethylbenzyl ammonium chlorides	68956-79-6	1.0	Not Established
Sodium metasilicate	6834-92-0		Not Established

Other ingredients in this product are :  Less than 1% by weight or less than 0.1% for carcinogens  Not hazardous  Declared to be Trade Secret

## SECTION 3 - PHYSICAL DATA

Boiling point(°F.) Near 212	Specific Gravity(H2O=1.0) (± 0.005) 1.045	pH (± 0.5) 12.5
Vapor Pressure(mm Hg) Unknown	Vapor Density(Air=1) Unknown	
Solubility in water <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)		
Evaporation Rate(vs. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same		

Appearance and Odor Liquid, pleasant odor

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point(T.C.C.) °F. <input checked="" type="checkbox"/> None to Boiling	Flammable Limits Upper Unknown Lower Unknown
Extinguishing Media CO2, drv chemical, foam, water sprav.	
Special Firefighting Procedures Do not enter confined fire-spaces without protective clothing and self-contained air supplv.	
Unusual Fire and Explosion Hazards None known.	

## SECTION 5 - REACTIVITY DATA

Stability Stable	Incompatibility Strong oxidizers
Hazardous Decomposition Products Carbon monoxide and other unidentified organic gases may occur during incomplete combustion.	

## SECTION 6 - HEALTH HAZARDS

Primary Routes of Exposure <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Other	
Signs and Symptoms of Overexposure (Acute) Eyes: Redness, severe eye damage. Skin: Burns. Swallowing: probable mucosal damage, possible respiratory depression, possible convulsions.	
Signs and Symptoms of Overexposure (Chronic) None known	
Medical Conditions Aggravated by Overexposure None known	Carcinogen/Suspect Carcinogen Ingredients <input type="checkbox"/> NTP <input type="checkbox"/> OSHA <input type="checkbox"/> IARC <input checked="" type="checkbox"/> NONE

## SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES

Eyes	Flush immediately with water for at least 15 minutes. Call a physician.
Skin	Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing/ shoes. Call a physician. Wash clothing before reuse.
Ingestion	Drink milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician.
Inhalation	Not applicable

## SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection	Not needed under normal conditions of use.	
Ventilation Requirements	<input type="checkbox"/> Local Exhaust <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Room Ventilation Is Adequate	
Protective Gloves Rubber	Eye Protection Safety glasses/goggles	Other Protective Clothing May be needed where likely exposure may occur

## SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken if Released or Spilled	Absorb with suitable absorbent. For large spills, absorb with suitable absorbent, then shovel into containers.
Waste Disposal Methods	Dispose of in accordance with applicable Federal, State and Local ordinances.

## SECTION 10 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken Do not contaminate food or water by storage or disposal. Triple rinse (or equivalent) empty container before disposal. Do not get in eyes on skin or clothing. in Handling and Storage