



MATERIAL SAFETY DATA SHEET
Tennant 665 Heavy Duty Cleaner/Degreaser

TENNANT
 701 North Lilac Drive
 P.O. Box 1452
 Minneapolis, MN 55440-1452

EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs) District of Columbia: (202) 483-7616 (24 hrs)
 CANADA: CANUTEC (613) 996-6666 (24 hrs) MSDS Requests: (800) 553-8033

PREPARATION INFO:

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This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the info contained herein.

Issue Date: August 9, 2004	HAZARD RATING	NFPA	HMIS	NFPA	HMIS	4 = Extreme	3 = High	0 = Insignificant
Supersedes: May 5, 2004	Health	1	1	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed: 8/9/2004	Fire	1	1	Special	0			X = Ask supervisor for guidance.

******* I. IDENTIFICATION *******

PRODUCT NAME: Tennant 665 Heavy Duty Cleaner/Degreaser

US DEPT OF TRANSPORTATION (GROUND):

PART NUMBER: 1017022

UN#: None Allocated

PACKAGING GROUP: Not Applicable

CHEMICAL FAMILY: Amphoteric Detergent

HAZARD CLASSIFICATION: Non Regulated

MATERIAL USE: Commercial Detergent

SHIPPING NAME: Not Applicable

******* II. PHYSICAL DATA *******

BOILING POINT: 212°F / 100°C	FREEZE POINT: 32°F. / 0°C.
DENSITY: 1.0 kg/L	% VOLATILE: 62 by wt
SOLUBILITY IN WATER: Complete	VAPOR PRESSURE: Not Available mm Hg at 20 °C.
ODOR THRESHOLD: Not Available	pH: 7.0
PHYSICAL FORM: Liquid	VAPOR DENSITY: Heavier THAN AIR
APPEARANCE AND ODOR: Dk. Blue/Soapy	COEFFICIENT WATER/OIL DISTRIBUTION: Not Available
EVAPORATION RATE: Faster THAN N-BUTYL ACETATE	VOC g/L (lb/gal): 0 (0.00)
MECHANICAL IMPACT: Not Available	STATIC DISCHARGE: Not Available

******* III. INGREDIENTS *******

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

<u>CHEMICAL</u>	<u>CAS #</u>	<u>% W</u>	<u>OSHA PEL ppm</u>	<u>ACGIH TLV TWA ppm</u>	<u>ACGIH TLV STEL ppm</u>	<u>LD50</u>	<u>LC50 INHALATION</u>
Proprietary Surfactant	*	35-45	Not Available	Not Available	Not Available	>5000 mg/kg (oral rat)	Not Available
Polyethylene glycol trimethylnonyl ether	60828-78-6	1-5	Not Available	Not Available	Not Available	Not Available	Not Available

*New Jersey Trade Secret Number 0718

SARA Title III Section 313 Information:

Components present in this product at a level which could require reporting under this statute are:

None

California Proposition 65 Information:

This product contains the following chemicals that have been designated as cancer and/or reproductive hazards under California Proposition 65.

None

****** IV. FIRE AND EXPLOSIVE HAZARD DATA ******

FLAMMABLE: No **FLASH POINT:** Not Available / Not Available Setofflash
FLAMMABLE LIMITS: % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE:** Not Available / Not Available
EXTINGUISHING MEDIA: Not Applicable
SPECIAL FIRE FIGHTING PROCEDURES:
None. Will not burn.
UNUSUAL FIRE EXPLOSION HAZARD:
None.

****** V. REACTIVITY DATA ******

STABILITY: Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not
CONDITIONS TO AVOID: Cold temperatures--product damaged upon freezing.
INCOMPATIBILITY (materials to avoid): Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon monoxide and/or nitric oxide.

****** VI. HEALTH HAZARD DATA ******

EFFECTS OF OVEREXPOSURE: **THRESHOLD LIMIT VALUE - See Section III for individual ingredients.**
PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact
SKIN CONTACT/ABSORPTION: Contains materials that may cause irritation upon repeated/prolonged contact.
EYE CONTACT: Contains materials which may cause eye irritation. During application of this product, contact lenses should NOT be worn.
INGESTION (Swallowing):
May cause gastrointestinal irritation.
INHALATION (Breathing):
None expected.
SUPPLEMENTAL HEALTH INFORMATION:
Ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) lists.

****** VII. EMERGENCY AND FIRST AID PROCEDURES ******

SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.
EYE CONTACT: Flush immediately with water for 15 minutes; CALL A PHYSICIAN.
INGESTION (Swallowing): CALL A PHYSICIAN OR POISON CONTROL CENTER.
INHALATION (Breathing): Remove to fresh air. If breathing difficulty persists or occurs later, consult a physician.

****** VIII. PREVENTIVE MEASURES ******

SPILL OR LEAK PROCEDURES: **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**
Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.
WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state and local regulations.
SPECIAL PROTECTION INFORMATION: **RESPIRATORY PROTECTION and VENTILATION:**
Use with adequate ventilation.
General exhaust.
PROTECTIVE GLOVES (specify type): **EYE PROTECTION (specify type):**
Impervious gloves; i.e., rubber Chemical splash goggles
SKIN PROTECTION: Impervious gloves; i.e., rubber
SPECIAL PRECAUTIONS: **PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**
KEEP FROM FREEZING.
OTHER PRECAUTIONS: Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid free fall of liquid in excess of a few inches.