

---

MATERIAL SAFETY DATA SHEET

---

Page 1 of 4  
Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

FELT KLEEN 230

MSDS ID: 02013

---

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

Product Name: FELT KLEEN 230  
Product Descriptor: Continuous/Batch Felt Cleaner  
MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800) 851-7145  
3630 E. KEMPER ROAD  
CINCINNATI, OH. 45241

---

II. HAZARDOUS COMPONENTS

---

| Component Name | CAS Number | %    | Exposure Limits  | Units |
|----------------|------------|------|------------------|-------|
| NONE           |            | >30% | None established |       |

---

III. HAZARDS IDENTIFICATION

---

EMERGENCY OVERVIEW:

CAUTION- Contains ingredients that may cause slight eye irritation. May be harmful if swallowed. Do not get in eyes or on clothing. Do not take internally. Clean up spill and any runoff to prevent possible environmental damage.

POSSIBLE ROUTES OF ENTRY: Ingestion and Inhalation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: EYES: Irritation with pain, swelling and redness may develop. SKIN: Irritation or dryness develop with long contact. INGESTION: If swallowed, diarrhea, nausea and vomiting may occur.

CHRONIC: Same as Acute Effects.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Dermatitis and sensitive skin.

TARGET ORGAN(S) OF CHEMICAL HAZARD(S): Eyes and skin.

---

IV. FIRST AID MEASURES

---

EYES: Immediately flush with plenty of water. If irritation or redness develop, get medical attention.

SKIN: Flush skin with plenty of water. If irritation develops, get medical attention.

INGESTION: If swallowed, drink several glasses of water. Do not induce vomiting. Consult a physician or poison control center. NOTE: Never give fluids by mouth to an unconscious person.

INHALATION: Remove to fresh air. If breathing difficulties arise, get medical attention.

---

**MATERIAL SAFETY DATA SHEET**

---

Page 2 of 4  
Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

**FELT KLEEN 230****MSDS ID: 02013**

---

---

**V. FIRE FIGHTING MEASURES**

---

FLASH POINT (degrees F): N/A FLAME EXTENSION: N/A  
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/A UEL: N/A  
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: None known.  
EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.  
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus (SCBA) in fire area.

---

---

**VI. ACCIDENTAL RELEASE MEASURES**

---

IF MATERIAL IS RELEASED OR SPILLED:  
Small spills - Absorb with neutral materials or mop up liquid. Large spills - Collect materials with neutral absorbent. Return to container. Dispose of in accordance with local, state, and federal regulations.  
This product does not contain a reportable quantity (RQ) under CERCLA.

---

---

**VII. HANDLING AND STORAGE**

---

HANDLING AND STORAGE PRECAUTIONS: Store in a cool, dry area. Keep from freezing. If frozen, warm to thaw and mix for use. Keep container closed when not in use. Wear protective gear when handling or using. Do not pressurize container to empty.

---

---

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

EYE/FACE PROTECTION: Safety glasses.  
PROTECTIVE GLOVES: Chemical resistant.  
RESPIRATORY PROTECTION: Not normally required.  
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Not normally required.  
ENGINEERING CONTROLS:  
MECHANICAL VENTILATION: Normal room ventilation should be sufficient to control airborne levels.  
LOCAL VENTILATION: Not usually required.

---

---

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

---

APPEARANCE AND ODOR: Light brown to amber liquid with mild odor.

|                                      |                     |
|--------------------------------------|---------------------|
| BOILING POINT (DEG F): 212           | FREEZING POINT: ND  |
| SPECIFIC GRAVITY/BULK DENSITY: 1.008 |                     |
| pH: 5.3                              | pH 1% SOLUTION: 6.0 |
| VOLATILE BY VOLUME: ND               |                     |
| SOLUBILITY IN WATER: Soluble         |                     |
| VAPOR PRESSURE(mmHg): 17.5 at 20 C   | VAPOR DENSITY: ND   |

---

---

**X. STABILITY AND REACTIVITY**

---

CHEMICAL STABILITY: Product stable. If frozen, thaw and mix.  
INCOMPATIBILITY WITH OTHER MATERIALS: Strong acids, strong oxidizers.  
HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms oxides of carbon and nitrogen.

---

MATERIAL SAFETY DATA SHEET

---

Page 3 of 4  
Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

FELT KLEEN 230

MSDS ID: 02013

---

X. STABILITY AND REACTIVITY (Cont.)

---

HAZARDOUS POLYMERIZATION: None known.

---

XI. TOXICOLOGICAL INFORMATION

---

No data available.  
TOXICITY TEST DATA:  
No data available.

---

XII. ECOLOGICAL INFORMATION

---

ECOTOXICITY DATA: Contains biodegradable, synthetic detergents that may be toxic to aquatic forms. Discharge waste product only to sanitary sewer or on-site waste treatment.  
ECOTOXICITY TEST DATA: No data available.  
ENVIRONMENTAL FATE: No data available.

---

XIII. DISPOSAL CONSIDERATIONS

---

RCRA REGULATED: Not Regulated.  
Discharge diluted product to industrial sewer. Use product in container until empty. Triple rinse container with water and add to process. Recycle or dispose of container by product labeling or governmental regulations.

---

XIV. TRANSPORT INFORMATION

---

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

---

XV. REGULATORY INFORMATION

---

U.S. Federal Regulations:  
TSCA: All ingredients in this product are on TSCA inventory.  
HAPS: Contains no hazardous air pollutants.  
VOC CONTENT (EPA Method 24A): % VOC: 5 Lb/Gal VOC: 0.42  
CERCLA/EPCRA:  
Section 313 Toxic Chemicals: None  
SARA Section 311/312:  
ACUTE:YES CHRONIC:NO FIRE:NO REACTIVITY:NO  
SUDDEN RELEASE OF PRESSURE:NO  
LISTED CARCINOGEN: None  
NTP: No IARC: No OSHA: No  
HMIS RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0  
PERSONAL PROTECTIVE EQUIPMENT: B  
NFPA RATING: HEALTH: 1 FIRE: 0 REACTIVITY: 0 SPECIAL:  
STATE RIGHT-TO-KNOW INFORMATION:  
WATER - CAS #7732-18-5  
TRIPROPYLENE GLYCOL METHYL ETHER - CAS #25498-49-1  
CALIFORNIA PROPOSITION 65:  
None of the ingredients are on the California proposition 65 list.

---

MATERIAL SAFETY DATA SHEET

Page 4 of 4  
Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

**FELT KLEEN 230**

**MSDS ID: 02013**

---

---

**XVI. OTHER INFORMATION**

---

DISCLAIMER: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.