
MATERIAL SAFETY DATA SHEET

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Revised 2/02/04
Replaces 8/12/03
Printed 2/03/04

RESOLUTE 104**MSDS ID: 04104**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: RESOLUTE 104

Product Descriptor: Solvent Cleaner

MANUFACTURER: JOHNSON DIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800)851-7145

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
ODORLESS MINERAL SPIRITS	64741-65-7	15 - 30%	TWA 100 STEL 500 (Stod. solvent)	PPM
PROPYLENE GLYCOL METHYL ETHER	107-98-2	15 - 30%	TWA 100 STEL 150	PPM

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION-Contains petroleum distillates that may cause eye irritation. May be harmful if swallowed. Avoid contact with eyes or clothing. Prolonged contact with undiluted product may cause defatting of skin. Avoid breathing mists which may cause respiratory irritation. Contain spill and runoff to prevent any environmental damage.

POSSIBLE ROUTES OF ENTRY: Ingestion, Skin 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, gastric distress, diarrhea, nausea or vomiting may occur. If vomiting occurs, petroleum distillates may be inhaled into the lungs and cause chemical pneumonia. INHALATION: Overexposure to vapors may cause dizziness, headache, fatigue and respiratory irritation.

CHRONIC: Same as Acute Effects.

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

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

IV. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention.

SKIN: Flush thoroughly with plenty of water. Wash with soap and water. Remove contaminated clothes and shoes and clean before reuse. Get medical attention for any painful, red or injured skin.

INGESTION: Contains petroleum distillates. Do not induce vomiting because of aspiration hazard. Do not give liquids by mouth except by order of a physician. Contact a physician or Poison Center.

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IV. FIRST AID MEASURES (Cont.)

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

V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): 104 FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: 1% UEL: 11%
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: COMBUSTIBLE. Avoid sparks or open flames.
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.
SPECIAL INSTRUCTIONS: Contain runoff. Prevent from entering sewer or storm drain.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
Turn off ignition sources. Contain spill. Absorb onto clay or sand. Place in covered metal container. Wash spill area with soap and water. Dispose of waste in accordance with environmental regulations.
This product does not contain a reportable quantity (RQ) under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: COMBUSTIBLE PRODUCT. Store in a cool area away from sparks, heat and open flames. Use with ventilation. Keep container closed when not in use. Do not pressurize container to empty.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses with side shields. Eye wash in use area if contact or splash hazard exists.
PROTECTIVE GLOVES: Nitrile, Neoprene, or other oil resistant materials.
RESPIRATORY PROTECTION: Respirator protection required if PEL is exceeded. See Section II for information.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Not normally required.
ENGINEERING CONTROLS:
MECHANICAL VENTILATION: Normal room ventilation should be sufficient to control airborne levels.
LOCAL VENTILATION: Use explosion-proof ventilation equipment for vapors or fumes.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear liquid with strong solvent odor.

BOILING POINT (DEG F): 250
SPECIFIC GRAVITY/BULK DENSITY: 0.91
pH: N/A
VOLATILE BY VOLUME: 98

FREEZING POINT: ND
pH 1% SOLUTION: N/A

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IX. PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

SOLUBILITY IN WATER: Miscible**VAPOR PRESSURE(mmHg):** 4.87 at 20 C **VAPOR DENSITY:** >AIR

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong acids, strong oxidizers.**HAZARDOUS DECOMPOSITION PRODUCTS:** Incomplete combustion forms oxides of carbon.**HAZARDOUS POLYMERIZATION:** None known.

XI. TOXICOLOGICAL INFORMATION

Any hazardous effects of the product mixture are based on information for each chemical part. See Section II for amounts of hazardous materials.

TOXICITY TEST DATA:

No data available.

XII. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Contains petroleum chemicals which are water insoluble. Do not discharge waste or unused product to sanitary sewer, ponds, waterways or the environment. Dispose of by label or governmental regulations.

ECOTOXICITY TEST DATA: No data available.**ENVIRONMENTAL FATE:** No data available.

XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Concentrated product would be considered D001- Ignitable if declared hazardous waste.

Contains petroleum products. Do not discharge to water or sewer. Arrange waste disposal through a licensed disposal company. Dispose of or recycle empty 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: 100 Lb/Gal VOC: 7.5**CERCLA/EPCRA:**

Section 313 Toxic Chemicals: PRODUCT CONTAINS GLYCOL ETHERS @ 25%, WHICH ARE

SARA Section 311/312:

ACUTE:YES **CHRONIC:**NO **FIRE:**YES **REACTIVITY:**NO**SUDDEN RELEASE OF PRESSURE:**NO

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XV. REGULATORY INFORMATION (Cont.)

LISTED CARCINOGEN: NONE

NTP: NO IARC: NO OSHA: NO

HMIS RATINGS: HEALTH: 2 FIRE: 2 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: C

NFPA RATING: HEALTH: 2 FIRE: 2 REACTIVITY: 0 SPECIAL:

STATE RIGHT-TO-KNOW INFORMATION:

PROPYLENE GLYCOL METHYL ETHER - CAS #107-98-2

ETHYL-3-ETHOXYPROPIONATE - CAS #763-69-9

PROPYLENE GLYCOL METHYL ETHER ACETATE - CAS #108-65-6

ODORLESS MINERAL SPIRITS - CAS #64741-65-7

MASKING AGENT - CAS #PROPRIETARY

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

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.