
MATERIAL SAFETY DATA SHEET

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

RESOLUTE 210**MSDS ID: 04210**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: RESOLUTE 210

Product Descriptor: Solvent-Emulsifier

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
AROMATIC SOLVENT NAPHTHA	64742-94-5	15 - 30%	PEL 100 LV 5	TPPM MG/M3
CYCLOHEXANOL	108-93-0	5 - 15%	TWA 206 (skin)	MG/M3
LINEAR ALCOHOL ETHOXYLATE	68439-46-3	1 - 5%	None est.	

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 and skin.

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

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IV. FIRST AID MEASURES (Cont.)

INHALATION: a physician. Contact a physician or Poison Center.
Remove to fresh air. If breathing difficulties arise, get medical attention.

V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): 210 FLAME EXTENSION: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: ND UEL: ND
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Product may burn if liquid is evaporated by heat or fire.
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: Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back to the container causing a possible fire or explosion.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:
Contain the spill. Prevent spill from entering sewer. Recover free liquid and/or collect with inert oil absorbent. Place absorbent into metal container for disposal. Clean spill area with detergent or solventized cleaner. 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: Product may burn if heated above ignition point temperature. Do not store near heat, sparks or open flames. 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: Local exhaust ventilation may be necessary to control any air contaminants to within their Threshold Limit Values (TLV's) during the use of this product.

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IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear amber liquid with pine odor

BOILING POINT (DEG F): 400

FREEZING POINT: ND

SPECIFIC GRAVITY/BULK DENSITY: 0.95

pH: N/A

pH 1% SOLUTION: N/A

VOLATILE BY VOLUME: ND

SOLUBILITY IN WATER: Emulsifiable

VAPOR PRESSURE(mmHg): ND at 20

VAPOR DENSITY: >AIR

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 sulfur.

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: Not Regulated.

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: 22.8 Lb/Gal VOC: 1.75

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XV. REGULATORY INFORMATION (Cont.)

CERCLA/EPCRA:

Section 313 Toxic Chemicals: Cyclohexanol CAS #108-93-0 at <10%

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: 1 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: B

NFPA RATING: HEALTH: 1 FIRE: 1 REACTIVITY: 0 SPECIAL:

STATE RIGHT-TO-KNOW INFORMATION:

WATER - CAS #7732-18-5

AROMATIC HYDROCARBON MIX - CAS #PROPRIETARY

CYCLOHEXANOL - CAS #108-93-0

LINEAR ALCOHOL (C9-11) ETHOXYLATE - CAS #68439-46-3

DODECYLBENZYL SULFONIC ACID, POTASSIUM SALT - CAS #27178-16-1

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.