



Factor II, Incorporated

P.O. Box 1339
Lakeside, AZ 85929

Phone:(928) 537-8387
Fax: (928) 537-0893

MATERIAL SAFETY DATA SHEET Daro Adhesives B-200'S

In Case of Emergency Contact 928-537-8387 Factor II, Inc.

Factor II Technology urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to the use and understanding of the data contained in this MSDS.

To promote safe handling each customer or recipient should: (1) notify and furnish its employees, agents, contractors, customers, and others whom it knows or believes will use this material of the information regarding hazards or safety, (2) request its customers to notify their employees, customers and other users of the product of this information.

I. IDENTIFICATION

PRODUCT NAME: **Daro Adhesive**

PRODUCT NAME & CLASS: Water based acrylic emulsion.

CHEMICAL TYPE: Residual Monomers, Acrylic polymer, Ammonia & water.

II. HAZARDOUS INGREDIENTS & REGULATORY INFORMATION

HAZARDOUS COMPONENTS

Acrylic polymer CAS# NONHAZ 56-58%

Residual Monomers CAS# N/R <.1%Max

Aqua Ammonia CAS# 1336-21-6 .1%

Water CAS# 7732-18-5 NONHAZ 44-42%

TSCA: All components of this product are registered under the regulation of the Toxic Substance Act.

OSHA PEL

N/E

N/R

25

N/E

ACGIH TLV

N/E

N/R

25 ppm

N/E

III. PHYSICAL/CHEMICAL PROPERTIES

FREEZING POINT: 0°C/32°F

BOILING POINT: 100°C/212°F

SPECIFIC GRAVITY (Density). 1-1.2

VAPOR PRESSURE 17mmHg@20°C/68°F

SOLUBILITY IN WATER (By wt): dilutable

APPEARANCE/ODOR Milky white liquid, slightly ammoniac

PERCENT VOLATILES By wt. 43% (water)

pH: 7.-8.5

IV. EMERGENCY AND FIRST AID PROCEDURES & PRIMARY ROUTES OF ENTRY

INHALATION
EYE CONTACT
SKIN CONTACT



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EYES: Flush with water for 15 minutes. Seek medical attention if irritation persists

SKIN: Remove Liquid from skin and wash with soap and water. Prolonged or repeated contact with liquid adhesives may cause skin irritation.

INHALATION: Irritation of mucous membranes of the nose, throat and respiratory tract and symptoms of headache and nausea. **Remove overexposed person to fresh air.**

INGESTION: Immediately drink water to dilute. Seek medical attention

V. PERSONAL PROTECTION

EYES: Eye protection is suggested for compliance with Good Manufacturing Practices.

VENTILATION: Mechanical local exhaust at point of contamination (vapor or mist) release.

OTHER PROTECTIVE EQUIPMENT: None required.

VI. FIRE & EXPLOSION HAZARD

FLASH POINT: Non Combustible

AUTO IGNITION TEMP: N/A

UPPER & LOWER EXPLOSION LIMIT: N/A

UNUSUAL FIRE & EXPLOSION HAZARDS: Adhesive will not burn but may spatter if temperature is higher than boiling point 212°F. Polymer solids can produce nitrogen and carbon gases on burning.

Use extinguishing media appropriate for surrounding fire.

VII. REACTIVITY DATA

STABILITY: Stable

MATERIALS/CONDITIONS TO AVOID: Avoid temperatures above 350°F, the onset of polymer decomposition.

Thermal decomposition is dependent on time and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield acrylic monomers.

HAZARDOUS POLYMERIZATION: None

VIII. TOXICOLOGICAL INFORMATION

The effects of overexposure (Section IV) are based on acute toxicity profiles for a number of acrylic emulsions, which are similar in composition to this adhesive.

Typical values are Rat, oral LD50: >5000 mg/kg;

Rabbit, dermal LD50: >5000 mg/kg.

Rabbit, skin irritation: practically non-irritating----

Rabbit, eye irritation: inconsequentially irritating.

IX. ECOLOGICAL INFORMATION

No Applicable Data

X. HANDLING & STORAGE



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Keep from freezing: material may coagulate. Minimum and Maximum storage temperature for this material is 34°F- 120°F

Keep people not involved with cleanup away, area may be slippery.
Dike and contain large spills with inert material (sand, earth etc.)
Transfer liquid to containers for recovery or disposal.

WASTE DISPOSAL METHOD:

Coagulate emulsion with ferric chloride or sulfate and then lime to a clear end-point. Decant the clear liquid to sewer and coagulum to landfill guidelines as determined by Federal, State and local agencies.
Coagulum may be incinerated.

STORAGE: KEEP FROM FREEZING!!!!!!!!!! Adhesive may coagulate.

NOTE: Monomer vapors can evolve from adhesive if it is heated. In this case, use local exhaust ventilation with a minimum velocity of 100 ft./min. At the point of monomer evolution. Refer to: Industrial Ventilation:

XI. TRANSPORT & REGULATORY INFORMATION

US DOT Hazard Class Nonregulated

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200)
This product is not a controlled product under the Canadian (WHMIS)

XII. OTHER INFORMATION

HAZARD RATINGS

HEALTH =1
FLAMMABILITY =0
REACTIVITY =0

Footnotes: N/E= not established; N/R= not required, N/A= not applicable.