



Revision Date: 05/12/2006

Issue date: 05/12/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 3875 Part A
Product type: Anaerobic
Company address:
 Henkel Corporation
 15051 East Don Julian Road
 Industry, California 91746

Item No. : TC3875A
Region: United States
Contact Information:
 Telephone: 626.968.6511
 Emergency Telephone: 860.571.5100
 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous components</u> | <u>%</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|---|----------|--|--|-----------------------|
| Aluminum oxide 1344-28-1 | 30-60 | 10 mg/m ³ TWA particulate matter containing no asbestos and < 1% crystalline silica | 15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction | None |
| Hydroxyalkyl methacrylate 27813-02-1 | 30-60 | None | None | 1 ppm TWA; 3 ppm STEL |
| Boron Nitride Proprietary | 10-30 | None | None | None |
| Acrylonitrile Proprietary | 5-10 | None | None | None |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | 0.1-1 | None | None | None |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid/paste
Color: Light yellow
Odor: Mild, Characteristic

HEALTH: 3*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION
 MAY CAUSE ALLERGIC SKIN REACTION.
 MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Causes respiratory tract irritation. High vapor concentrations may cause central nervous system depression (headache, nausea, dizziness). Shortness of breath. Coughing.
Skin contact: Causes skin irritation. May cause allergic skin reaction. Prolonged contact with skin may cause dermatitis.
Eye contact: Causes eye irritation. Excess tearing.
Ingestion: Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

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Existing conditions aggravated by exposure:

Eye, skin, and respiratory disorders. Skin allergies.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

| | |
|----------------------|---|
| Inhalation: | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention. |
| Skin contact: | Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention if symptoms develop and persist. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| Eye contact: | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion: | DO NOT induce vomiting unless directed to do so by medical personnel. Give a conscious person several glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop and persist. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flash point: | 97°C (206°F) Setaflash Closed cup |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits-lower %: | Not available |
| Flammable/Explosive limits-upper %: | Not available |
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special fire fighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Use water spray to keep fire exposed containers cool. |
| Unusual fire or explosion hazards: | Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. |
| Hazardous combustion products: | Oxides of carbon. Oxides of boron. Oxides of nitrogen. Hydrogen cyanide. Hydrocarbons. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Environmental precautions: | Prevent product from entering drains or open waters. |
| Clean-up methods: | Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Scrape up spilled material and place in a closed container for disposal. |

7. HANDLING AND STORAGE

| | |
|-------------------------------|--|
| Handling: | Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Do not breathe mist or vapors. Keep container closed. Wash thoroughly after handling. |
| Storage: | Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store between 5°C (41°F) and 10°C (50°F). |
| Incompatible products: | Refer to Section 10. |

For information on product shelf life contact Henkel Customer Service at (626) 968-6511

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--------------------------------|---|
| Engineering controls: | Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits. |
| Respiratory protection: | Use NIOSH approved respirator if there is potential to exceed exposure limit(s). |
| Skin protection: | Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. |
| Eye/face protection: | Chemical splash goggles or safety glasses with side shields. |

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Physical state: | Liquid/paste |
| Color: | Light yellow |
| Odor: | Mild, Characteristic |
| Vapor pressure: | Not available |
| pH: | Not applicable |
| Boiling point/range: | Not available |
| Melting point/range: | Not available |
| Specific gravity: | 1.7 |
| Vapor density: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Insoluble |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 0.103%; 1.751 grams/liter (EPA Method 24) |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable at normal conditions |
| Hazardous polymerization: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Boron oxides. Oxides of nitrogen. Hydrogen cyanide. Hydrocarbons. |
| Incompatibility: | Strong oxidizers. Strong acids. Strong bases. Amines. Alkalis. Free radical initiators. Reducing agents. Heavy metals. |
| Conditions to avoid: | Storage with incompatible materials. Heat, flames, sparks and other sources of ignition. Exposure to sunlight. |

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

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Product name: 3875 Part A

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|---|----------------|-----------------|-----------------|
| Aluminum oxide 1344-28-1 | No | No | No |
| Hydroxyalkyl methacrylate 27813-02-1 | No | No | No |
| Boron Nitride Proprietary | No | No | No |
| Acrylonitrile Proprietary | No | No | No |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | No | No | No |

Literature Referenced Target Organ & Other Health Effects

| Hazardous components | Health Effects/Target Organs |
|---|--|
| Aluminum oxide 1344-28-1 | Corrosive, Irritant, Nuisance dust |
| Hydroxyalkyl methacrylate 27813-02-1 | Allergen, Irritant |
| Boron Nitride Proprietary | Corrosive, Irritant |
| Acrylonitrile Proprietary | No data |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Item No. : TC3875A

Product name: 3875 Part A

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Melissa Frisby, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
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860-571-5204

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Revision Date: 05/12/2006

Issue date: 05/12/2006

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 3875 Part B
Product type: Anaerobic
Company address:
 Henkel Corporation
 15051 East Don Julian Road
 Industry, California 91746

Item No. : TC3875B
Region: United States
Contact Information:
 Telephone: 626.968.6511
 Emergency Telephone: 860.571.5100
 Internet: www.electronics.henkel.us

2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous components</u> | <u>%</u> | <u>ACGIH TLV</u> | <u>OSHA PEL</u> | <u>OTHER</u> |
|--|----------|--|--|-------------------------------------|
| Aluminum oxide 1344-28-1 | 30-60 | 10 mg/m ³ TWA particulate matter containing no asbestos and < 1% crystalline silica | 15 mg/m ³ TWA total dust 5 mg/m ³ TWA respirable fraction | None |
| Boron Nitride Proprietary | 10-30 | None | None | None |
| Polyurethane methacrylate resin Proprietary | 5-10 | None | None | None |
| Hydroxyalkyl methacrylate 27813-02-1 | 5-10 | None | None | 1 ppm TWA; 3 ppm STEL |
| Urethane methacrylate polyester resin Unknown | 5-10 | None | None | None |
| Methacryloyloxyethyl succinate 20882-04-6 | 5-10 | None | None | None |
| High boiling methacrylate 7534-94-3 | 1-5 | None | None | None |
| Acrylic acid 79-10-7 | 1-5 | 2 ppm TWA (skin) | 10 ppm TWA; 30 mg/m ³ | 1 ppm TWA (skin); 3 ppm STEL (skin) |
| Fatty acids, C6-19-branched, cobalt(2+)salts 68409-81-4 | 0.1-1 | None | None | None |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| <u>HMIS:</u> | |
|-------------------------------------|---|
| Physical state: Liquid/paste | HEALTH: 3* |
| Color: Light blue | FLAMMABILITY: 1 |
| Odor: Mild, Characteristic | PHYSICAL HAZARD: 0 |
| | Personal Protection: See Section 8 |

WARNING:

Item No. : TC3875B

Product name: 3875 Part B

CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION
MAY CAUSE ALLERGIC SKIN REACTION.
MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

| | |
|----------------------|--|
| Inhalation: | Causes respiratory tract irritation. Shortness of breath. Coughing. |
| Skin contact: | Causes skin irritation. May cause allergic skin reaction. Prolonged contact with skin may cause dermatitis. Itching. Redness. |
| Eye contact: | Causes eye irritation. Pain and discomfort. Blurred vision. Excess tearing. |
| Ingestion: | May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful to the liver or kidneys if swallowed. |

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders. Skin allergies.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

| | |
|----------------------|---|
| Inhalation: | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention. |
| Skin contact: | Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention if symptoms develop and persist. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| Eye contact: | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist. |
| Ingestion: | DO NOT induce vomiting unless directed to do so by medical personnel. Give a conscious person several glasses of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop and persist. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flash point: | 107°C (224°F) Setaflash Closed cup |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits-lower %: | Not available |
| Flammable/Explosive limits-upper %: | Not available |
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special fire fighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Use water spray to keep fire exposed containers cool. |
| Unusual fire or explosion hazards: | Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back. |
| Hazardous combustion products: | Oxides of carbon. Oxides of nitrogen. Oxides of boron. Hydrocarbons. |

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Item No. : TC3875B

Product name: 3875 Part B

Clean-up methods: Ensure adequate ventilation. Wear suitable protective clothing, gloves and eye/face protection. Scrape up spilled material and place in sealed container for disposal.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Do not breathe mist or vapors. Keep container closed. Wash thoroughly after handling.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. For safe storage, store between 5°C (41°F) and 10°C (50°F).

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (626) 968-6511

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Physical state: | Liquid/paste |
| Color: | Light blue |
| Odor: | Mild, Characteristic |
| Vapor pressure: | Not available |
| pH: | Not applicable |
| Boiling point/range: | Not available |
| Melting point/range: | Not available |
| Specific gravity: | 1.69 |
| Vapor density: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Insoluble |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 0.053%; 0.8957 grams/liter (EPA Method 24) |

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Hazardous polymerization: None under normal processing.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Boron oxides. Hydrocarbons.

Incompatibility: Strong oxidizers. Strong acids and strong bases. Free radical initiators. Reducing agents. Heavy metals.

Conditions to avoid: Storage with incompatible materials. Heat, flames, sparks and other sources of ignition. Ultraviolet radiation.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Item No. : TC3875B

Product name: 3875 Part B

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|---|----------------|-----------------|-----------------|
| Aluminum oxide 1344-28-1 | No | No | No |
| Boron Nitride Proprietary | No | No | No |
| Polyurethane methacrylate resin Proprietary | No | No | No |
| Hydroxyalkyl methacrylate 27813-02-1 | No | No | No |
| Urethane methacrylate polyester resin Unknown | No | No | No |
| Methacryloyloxyethyl succinate 20882-04-6 | No | No | No |
| High boiling methacrylate 7534-94-3 | No | No | No |
| Acrylic acid 79-10-7 | No | No | No |
| Fatty acids, C6-19-branched, cobalt(2+)salts 68409-81-4 | No | Group 2B | Yes |

Literature Referenced Target Organ & Other Health Effects

| Hazardous components | Health Effects/Target Organs |
|---|--|
| Aluminum oxide 1344-28-1 | Corrosive, Irritant, Nuisance dust |
| Boron Nitride Proprietary | Corrosive, Irritant |
| Polyurethane methacrylate resin Proprietary | Allergen, Irritant |
| Hydroxyalkyl methacrylate 27813-02-1 | Allergen, Irritant |
| Urethane methacrylate polyester resin Unknown | Allergen, Irritant |
| Methacryloyloxyethyl succinate 20882-04-6 | No Records |
| High boiling methacrylate 7534-94-3 | Allergen, Irritant |
| Acrylic acid 79-10-7 | Allergen, Corrosive, Irritant, Kidney, Liver |
| Fatty acids, C6-19-branched, cobalt(2+)salts 68409-81-4 | No Records |

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

Item No. : TC3875B

Product name: 3875 Part B

U.S. Department of Transportation Ground (49 CFR):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Acrylic acid (CAS# 79-10-7). Fatty acids, C6-C19 branched, cobalt(2+) salts (CAS # 68409-81-4).

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Melissa Frisby, Product Safety and Regulatory Affairs Specialist
For Safety and Regulatory Information contact:
Product Safety and Regulatory Affairs,
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860-571-5204

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