

Safety Data Sheet

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29-9254-3 **Version Number:** 5.00 **Document Group: Issue Date:** 06/27/16 **Supercedes Date:** 08/14/14

SECTION 1: Identification

1.1. Product identifier

3MTM Heavy Duty Glass Cleaner Concentrate (Product No. 20, Twist 'n FillTM System)

Product Identification Numbers

61-0000-6344-8, 61-0000-6381-0, 70-0715-9305-0, 70-0715-9306-8, 70-0716-8355-4, 70-0716-8356-2

1.2. Recommended use and restrictions on use

Recommended use

Non-streaking, heavy-duty cleaner for windows, glass, mirrors and other mirrored surfaces., Hard Surface Cleaner

1.3. Supplier's details

MANUFACTURER: 3M

DIVISION: Commercial Solutions Division

ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification

Flammable Liquid: Category 3.

Serious Eye Damage/Irritation: Category 1. Skin Corrosion/Irritation: Category 2.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Corrosion | Exclamation mark |

Pictograms



Hazard Statements

Flammable liquid and vapor.

Causes serious eye damage.

Causes skin irritation.

May cause drowsiness or dizziness.

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

None.

62% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

| Ingredient | C.A.S. No. | % by Wt |
|------------|------------|---------|

3MTM Heavy Duty Glass Cleaner Concentrate (Product No. 20, Twist 'n FillTM System) 06/27/16

| 1-PROPOXY-2-PROPANOL | 1569-01-3 | 30 - 60 Trade Secret * |
|-------------------------------|-------------|--------------------------|
| WATER | 7732-18-5 | 30 - 60 Trade Secret * |
| ALKYL ETHOXY CARBOXYLIC ACID | 220622-96-8 | 1 - 5 Trade Secret * |
| ETHANOLAMINE | 141-43-5 | 0.5 - 1.5 Trade Secret * |
| ALCOHOLS, C10-16, ETHOXYLATED | 68002-97-1 | < 1 Trade Secret * |
| Fragrance added | Mixture | < 1 Trade Secret * |

^{*}The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

This product is not intended to be used without prior dilution as specified on the product label. Grounding or safety shoes with electrostatic dissipating soles (ESD) are not required with a chemical dispensing system. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient | C.A.S. No. | Agency | Limit type | Additional Comments |
|--------------|------------|--------|----------------------|----------------------------|
| ETHANOLAMINE | 141-43-5 | ACGIH | TWA:3 ppm;STEL:6 ppm | |
| ETHANOLAMINE | 141-43-5 | OSHA | TWA:6 mg/m3(3 ppm) | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

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8.2.1. Engineering controls

NOTE: When used with a chemical dispensing system as directed, special ventilation is not required. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

NOTE: When used with a chemical dispensing system as directed, eye contact with the concentrate is not expected to occur. If the product is not used with a chemical dispensing system or if there is an accidental release, wear protective eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

NOTE: When used with a chemical dispensing system as directed, skin contact with the concentrate is not expected to occur. If product is not used with a chemical dispensing system or if there is an accidental release:

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Butyl Rubber

Polymer laminate

Respiratory protection

NOTE: When used with a chemical dispensing system as directed, respiratory protection is not required.

If product is not used with a chemical dispensing system or if there is an accidental release:

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form: Liquid

Odor, Color, Grade: Clear dark blue-violet color with floral fragrance

Odor threshold No Data Available

pH 9.3 - 10.5Melting point Not Applicable

Boiling Point 275 °F [*Details:* Approximately] **Flash Point** 118 °F [*Test Method:* Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data Available

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Flammable Limits(UEL) No Data Available No Data Available Vapor Pressure **Vapor Density** No Data Available

Density 7.93 lb/gal

0.942 - 0.953 [Ref Std: WATER=1] **Specific Gravity**

Solubility in Water Complete

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available No Data Available **Autoignition temperature Decomposition temperature** No Data Available

Viscosity < 3

Hazardous Air Pollutants Not Applicable **Volatile Organic Compounds** 60 - 65 % weight Percent volatile 95 - 100 **VOC Less H2O & Exempt Solvents** 860 - 890 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Sparks and/or flames

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Substance Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

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Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion:

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

| Name | Route | Species | Value |
|-------------------------------|-------------|------------|---|
| Overall product | Dermal | | No data available; calculated ATE 2,000 - 5,000 |
| | | | mg/kg |
| Overall product | Inhalation- | | No data available; calculated ATE > 50 mg/l |
| | Vapor(4 hr) | | |
| Overall product | Ingestion | | No data available; calculated ATE 2,000 - 5,000 |
| | | | mg/kg |
| 1-PROPOXY-2-PROPANOL | Dermal | Rabbit | LD50 2,805 mg/kg |
| 1-PROPOXY-2-PROPANOL | Inhalation- | Rat | LC50 > 11.8 mg/l |
| | Dust/Mist | | |
| | (4 hours) | | |
| 1-PROPOXY-2-PROPANOL | Ingestion | Rat | LD50 2,500 mg/kg |
| ALKYL ETHOXY CARBOXYLIC ACID | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| ALKYL ETHOXY CARBOXYLIC ACID | Ingestion | Rat | LD50 > 2,000 mg/kg |
| ETHANOLAMINE | Inhalation- | official | LC50 estimated to be 10 - 20 mg/l |
| | Vapor | classifica | |
| | | tion | |
| ETHANOLAMINE | Dermal | Rabbit | LD50 1,000 mg/kg |
| ETHANOLAMINE | Ingestion | Rat | LD50 1,720 mg/kg |
| ALCOHOLS, C10-16, ETHOXYLATED | Ingestion | Rat | LD50 1,350 mg/kg |
| Fragrance added | Dermal | Rabbit | LD50 > 5,010 mg/kg |
| Fragrance added | Inhalation- | Rat | LC50 > 2.34 mg/l |
| - | Dust/Mist | | - |
| | (4 hours) | | |
| Fragrance added | Ingestion | Rat | LD50 > 5,010 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| | | I |
|------|---------|-------|
| Name | Species | Value |

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| 1-PROPOXY-2-PROPANOL | Rabbit | Minimal irritation |
|-------------------------------|--------|---------------------------|
| ALKYL ETHOXY CARBOXYLIC ACID | Rabbit | Irritant |
| ETHANOLAMINE | Rabbit | Corrosive |
| ALCOHOLS, C10-16, ETHOXYLATED | Rabbit | Mild irritant |
| Fragrance added | Rabbit | No significant irritation |

Serious Eye Damage/Irritation

| = | | |
|-------------------------------|----------|---------------------------|
| Name | Species | Value |
| | | |
| Overall product | In vitro | Corrosive |
| | data | |
| 1-PROPOXY-2-PROPANOL | Rabbit | Severe irritant |
| ALKYL ETHOXY CARBOXYLIC ACID | Rabbit | Corrosive |
| ETHANOLAMINE | Rabbit | Corrosive |
| ALCOHOLS, C10-16, ETHOXYLATED | Rabbit | Corrosive |
| Fragrance added | Rabbit | No significant irritation |

Skin Sensitization

| Name | Species | Value |
|-------------------------------|---------|--|
| ETHANOLAMINE | Guinea | Some positive data exist, but the data are not |
| | pig | sufficient for classification |
| ALCOHOLS, C10-16, ETHOXYLATED | Human | Some positive data exist, but the data are not |
| | | sufficient for classification |
| Fragrance added | Guinea | Not sensitizing |
| | pig | |

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

| Name | Route | Value |
|----------------------|----------|---------------|
| 1-PROPOXY-2-PROPANOL | In Vitro | Not mutagenic |
| ETHANOLAMINE | In Vitro | Not mutagenic |
| ETHANOLAMINE | In vivo | Not mutagenic |
| Fragrance added | In Vitro | Not mutagenic |
| Fragrance added | In vivo | Not mutagenic |

Carcinogenicity

| - , | | | |
|-----------------|-----------|----------|------------------|
| Name | Route | Species | Value |
| Fragrance added | Ingestion | Multiple | Not carcinogenic |
| | | animal | |
| | | species | |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test Result | Exposure Duration |
|----------------------|------------|--|---------|--------------------------|-----------------------------|
| 1-PROPOXY-2-PROPANOL | Inhalation | Some positive developmental data exist, but the data are not sufficient for classification | Rat | NOAEL 3.6 mg/l | during organogenesi s |
| ETHANOLAMINE | Dermal | Not toxic to development | Rat | NOAEL 225 mg/kg/day | during organogenesi s |
| ETHANOLAMINE | Ingestion | Not toxic to development | Rat | NOAEL 616 mg/kg/day | during organogenesi s |
| Fragrance added | Ingestion | Not toxic to development | Rat | NOAEL 5,000 mg/kg/day | during organogenesi s |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|---------------------------------|------------|--------------------------------------|--|-------------------------------|------------------------|----------------------|
| 1-PROPOXY-2- PROPANOL | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Multiple animal species | LOAEL 10.8 mg/l | 6 hours |
| 1-PROPOXY-2- PROPANOL | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| 1-PROPOXY-2- PROPANOL | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Rat | LOAEL 1,770 mg/kg | not applicable |
| ALKYL ETHOXY CARBOXYLIC ACID | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |
| ETHANOLAMINE | Inhalation | respiratory irritation | May cause respiratory irritation | Human and animal | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test Result | Exposure Duration |
|--------------------------|------------|--|--|-------------------------------|-----------------------------|----------------------|
| 1-PROPOXY-2- PROPANOL | Inhalation | liver kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 9.5 mg/l | 11 days |
| ETHANOLAMINE | Inhalation | liver kidney and/or bladder respiratory system | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 0.656 mg/l | 5 weeks |
| ETHANOLAMINE | Ingestion | hematopoietic system liver kidney and/or bladder respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL Not available | |
| Fragrance added | Ingestion | respiratory system heart | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 470 mg/kg/day | 105 weeks |
| Fragrance added | Ingestion | endocrine system liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 3,040 mg/kg/day | 105 weeks |
| Fragrance added | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 115 mg/kg/day | 105 weeks |
| Fragrance added | Ingestion | skin bone, teeth, nails, and/or hair hematopoietic system immune system nervous system vascular system | All data are negative | Rat | NOAEL 3,040 mg/kg/day | 105 weeks |

Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 2 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 3 Flammability: 2 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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