

Material Safety Data Sheet

Material Name: TOUCH-N-PREP (TM) COATINGS - ALODINE® 1132

ID: 236049

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name TOUCH-N-PREP (TM) COATINGS - ALODINE® 1132

Manufacturer Information

Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300

Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
24613-89-6	Chromium(III) chromate	<1
7789-04-0	Chromium phosphate	<1
7738-94-5	Chromic acid	<1

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Hexavalent chromium, Chromium (VI) compounds- water soluble, Chromium (VI) (18540-29-9), Chromium compounds, Chromium, inorganic compounds, Chromium (III) compounds, soluble.

*** Section 3 - Hazards Identification ***

Emergency Overview:

WARNING! Cancer hazard. This product may be severely irritating to the eyes. This product may cause irritation to the skin.

Eye Contact:

This product may be severely irritating to the eyes.

Skin Contact:

Contact with broken skin may lead to formation of firmly marginated "chrome sores". This product may cause irritation to the skin. Product contains chromium, which may cause an allergic skin sensitization reaction. Massive overexposures may lead to kidney failure and death.

Skin Absorption:

A component in this product may be absorbed through the skin in harmful amounts.

Ingestion:

This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Inhalation:

This product may cause irritation to the respiratory system.

Medical Conditions Aggravated by Exposure:

Pre-existing eye, skin and respiratory disorders.

*** Section 4 - First Aid Measures ***

Eye Contact:

In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Skin Contact:

Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. Seek immediate medical attention. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated.

Ingestion:

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

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Inhalation:

If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician

No additional information available.

* * * Section 5 - Fire Fighting Measures * * *

Flash Point: Not applicable

Method Used: Not applicable

Flammability Classification: Non-flammable

Upper Flammable Limit (UFL): Not applicable

Lower Flammable Limit (LFL): Not applicable

Fire & Explosion Hazards:

If evaporated to dryness, solid residue is an oxidizing agent and may cause spontaneous ignition of combustible materials.

Clothing or other material wet with this product and allowed to dry may become flammable.

Decomposition Products:

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media:

Use any media suitable for the surrounding fires.

Fire-Fighting Instructions:

Firefighters should wear full protective clothing including self contained breathing apparatus.

* * * Section 6 - Accidental Release Measures * * *

Containment Procedures:

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up.

Clean-Up Procedures:

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of collected material according to regulation.

* * * Section 7 - Handling and Storage * * *

Handling Procedures:

Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Clothing or other material wet with this product and allowed to dry may become flammable.

Storage Procedures:

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials. Do not freeze.

* * * Section 8 - Exposure Controls / Personal Protection * * *

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits.

B: Component Exposure Limits

Chromium(III) chromate (24613-89-6)

ACGIH: 0.05 mg/m3 TWA (related to Chromium (VI) compounds- water soluble)

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Chromic acid (7738-94-5)

ACGIH: 0.05 mg/m3 TWA (related to Chromium (VI) compounds- water soluble)
OSHA: Chromic acid and chromates: C 0.1 mg/m3
NIOSH: as CrO3: 0.001 mg/m3 TWA; NIOSH Potential Occupational Carcinogen - see Appendix A; see Appendix C for supplementary exposure limits

Engineering Controls:

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

Eyes/Face Protective Equipment:

Wear chemical goggles; face shield (if splashing is possible).

Skin Protection:

Use impervious gloves. Butyl, Neoprene, PVC or Nitrile gloves recommended. Use of impervious apron and boots are recommended.

Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Work Practices:

Eye wash fountain and emergency showers are recommended.

* * * Section 9 - Physical & Chemical Properties * * *

Physical State:	Liquid	Appearance:	Brown
Odor:	Mild	Vapor Pressure:	Not determined
Vapor Density:	Not determined	Boiling Point:	>212 °F (>100 °C)
Specific Gravity:	1.1 - 1.2	pH:	2.2
Viscosity:	Not determined	VOC:	Not applicable
Solubility Water:	Complete	Evaporation Rate:	Not determined
Percent Volatile:	Not applicable	Percent Solids:	Not determined

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Do not allow chemical to dry in the presence of organic materials.

Incompatibility:

Avoid contact with organic materials, oils, greases, and any oxidizable materials.

Decomposition Products:

None expected.

Hazardous Polymerization:

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Toxicity:

A: General Product Information

No information available for the product.

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B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity:

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

Chromium(III) chromate (24613-89-6)

ACGIH: A1 - confirmed human carcinogen (related to Chromium (VI) compounds- water soluble)

IARC: Monograph 49; 1990 (Chromium (VI) compounds; evaluated as a group) (related to Chromium (VI)) (Group 1 (carcinogenic to humans))

Chromic acid (7738-94-5)

ACGIH: A1 - confirmed human carcinogen (related to Chromium (VI) compounds- water soluble)

NIOSH: occupational carcinogen

IARC: Monograph 49; 1990 (Chromium (VI) compounds; evaluated as a group) (related to Chromium (VI)) (Group 1 (carcinogenic to humans))

Chromium phosphate (7789-04-0)

NTP: Known Carcinogen; **Data from experimental animals ONLY** (under Chromium and Certain Chromium Compounds) (Select Carcinogen)

Chronic Toxicity

Chromium III, the naturally occurring form, has low toxicity while chromium VI is highly toxic due to strong oxidation characteristics and permeability through biological membranes. Excessive exposure to chromium VI can produce allergic skin sensitization reactions and severe nasal irritation, scarring and damage to the lungs, liver and kidney damage.

Epidemiology:

No information available for the product.

Neurotoxicity:

No information available for the product.

Mutagenicity:

No information available for the product.

Teratogenicity:

No information available for the product.

Other Toxicological Information:

None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Chromium(III) chromate (24613-89-6)

Test & Species

LC50 (96 hr) fathead minnow 36.2 mg/L.

LC50 (96 hr) striped catfish 200 mg/L.

Conditions

related to Chromium (VI)

Chromic acid (7738-94-5)

Test & Species

LC50 (96 hr) fathead minnow 36.2 mg/L.

LC50 (96 hr) striped catfish 200 mg/L.

Conditions

related to Chromium (VI)

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Environmental Fate:

No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:

A: General Product Information

This product contains chromium which is a hazardous waste (D007).

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Chromium(III) chromate (24613-89-6)

SARA 313: form R reporting required for 0.1% de minimis concentration (related to Chromium (VI))

CERCLA: CERCLA statutory RQ is 1 pound (0.454 kg); no RQ is being assigned to the generic or broad class (related to Chromium compounds)

Chromic acid (7738-94-5)

SARA 313: form R reporting required for 0.1% de minimis concentration (related to Chromium (VI))

CERCLA: final RQ = 10 pounds (4.54 kg)

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No additional information available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Chromium(III) chromate (1 related to Chromium compounds) (2 related to Chromium (VI))	24613-89-6	Yes ¹	No	Yes	Yes ²	No	Yes ²
Chromic acid	7738-94-5	No	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Chromium(III) chromate	24613-89-6	Yes	Yes	Yes
Chromic acid	7738-94-5	Yes	Yes	Yes
Chromium phosphate	7789-04-0	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Chromium(III) chromate	24613-89-6	0.1% item 395 (549)

* * * Section 16 - Other Information * * *

NFPA Ratings: Health: 2 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 2* Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs and Product Acceptance

Contact Phone: (248) 583-9300

This is the end of MSDS # 236049