Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
Ultimate Iron Remover G2505 [G250524]

1.2. Recommended use and restrictions on use

Recommended use
Custom Compound

1.3. Supplier's details

MANUFACTURER:	Meguiar's, Inc.
DIVISION:	Meguiar's
ADDRESS:	213 Technology Dr, Irvine, CA 92618
Telephone:	1-800-347-5700

1.4. Emergency telephone number
CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

2.1. Hazard classification
Acute Toxicity (oral): Category 4.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols

Exclamation mark |

Pictograms

Hazard Statements

Harmful if swallowed.
May cause an allergic skin reaction.

Precautionary statements
General:
Keep out of reach of children.

Prevention:
Avoid breathing vapor or spray.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

Response:
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
Rinse mouth.
If skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

2% of the mixture consists of ingredients of unknown acute oral toxicity.
2% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
SODIUM MERCAPTOACETATE	367-51-1	5 - 10 Trade Secret *
COCOAMIDOPROPYLBETAINE	61789-40-0	1 - < 2.5 Trade Secret *

Any remaining components do not contribute to the hazards of this material.

*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:
If exposed, flush eyes with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms develop, 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

Allergic skin reaction (redness, swelling, blistering, and itching).

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 ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

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
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. Place in a closed

container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Keep out of reach of children. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage including any incompatibilities
No special storage requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls
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.

8.2.2. Personal protective equipment (PPE)

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:
Safety Glasses with side shields

Skin/hand protection
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: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Respiratory protection

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 and particulates

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

Physical state	Liquid
Specific Physical Form:	Gel
Color	Colorless
Odor	Mercaptan
Odor threshold	*No Data Available*
pH	4
Melting point	*No Data Available*
Boiling Point	100 ºC
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	1.05 g/ml
Relative Density	1.05
Solubility in Water	Complete
Solubility- non-water	Complete
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	47.6 mm2/sec
Volatile Organic Compounds	1 %
Particle Characteristics	*Not Applicable*

SECTION 10: Stability and reactivity

10.1. Reactivity
This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
None known.

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:

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

Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:
Contact with the eyes during product use is not expected to result in significant irritation.

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

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 >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
SODIUM MERCAPTOACETATE	Dermal	Rat	LD50 >1000, <2000 mg/kg
SODIUM MERCAPTOACETATE	Ingestion	Rat	LD50 >50, <200 mg/kg
COCOAMIDOPROPYLBETAINE	Dermal	Rat	LD50 > 2,000 mg/kg
COCOAMIDOPROPYLBETAINE	Ingestion	Rat	LD50 > 1,500 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
SODIUM MERCAPTOACETATE	Rabbit	Minimal irritation
COCOAMIDOPROPYLBETAINE	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
SODIUM MERCAPTOACETATE	Rabbit	Mild irritant

COCOAMIDOPROPYLBETAINE	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
SODIUM MERCAPTOACETATE	Mouse	Sensitizing
COCOAMIDOPROPYLBETAINE	Multiple animal species	Not classified

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
SODIUM MERCAPTOACETATE	In Vitro	Not mutagenic
SODIUM MERCAPTOACETATE	In vivo	Some positive data exist, but the data are not sufficient for classification
COCOAMIDOPROPYLBETAINE	In Vitro	Not mutagenic
COCOAMIDOPROPYLBETAINE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
SODIUM MERCAPTOACETATE	Dermal	Mouse	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
SODIUM MERCAPTOACETATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 40 mg/kg/day	2 generation
SODIUM MERCAPTOACETATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 20 mg/kg/day	2 generation
SODIUM MERCAPTOACETATE	Dermal	Not classified for development	Rat	NOAEL 100 mg/kg/day	during gestation
SODIUM MERCAPTOACETATE	Ingestion	Not classified for development	Rat	NOAEL 20 mg/kg/day	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
COCOAMIDOPROPYLBETAINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
SODIUM MERCAPTOACETATE	Dermal	skin	Not classified	Rat	LOAEL 11.25 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	heart	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	endocrine system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks

SODIUM MERCAPTOACETATE	Dermal	hematopoietic system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	liver	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	immune system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	muscles	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	nervous system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	eyes	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	respiratory system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Dermal	vascular system	Not classified	Rat	NOAEL 180 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	heart	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	liver	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	nervous system	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
SODIUM MERCAPTOACETATE	Ingestion	eyes	Not classified	Rat	NOAEL 60 mg/kg/day	13 weeks
COCOAMIDOPROPYLBETAINE	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days
COCOAMIDOPROPYLBETAINE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	92 days

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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

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 manufacturer for more information

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not Applicable.

Health Hazards
Acute toxicity
Respiratory or Skin Sensitization

15.2. State Regulations
Contact manufacturer for more information

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact manufacturer for more information

15.4. International Regulations
Contact manufacturer 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: 2 **Flammability:** 1 **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.

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