

**Product Name: Scientific Formula ERS-411**

## Section 1: Identification

- 1.1 Product Name:** Scientific Formula ERS-411
- 1.2 Product Class:** Surface Polish
- Product Codes:
- CAS/EC Number: Mixture (composition detailed in Section 3)
- Intended Use: Metal polish for all types of bare metals, chrome, fiberglass, and Plexiglas.
- 1.3 Manufactured By:**
- Rolite Company  
596 Progress Drive  
Hartland, Wisconsin, USA  
53029  
General Information Telephone: (262) 222-2626
- Supplied To:**
- ERS Depot, LLC  
11731 Levan Road  
Livonia, Michigan, USA  
48150  
General Phone Number: (734) 744-4700
- 1.4 Emergency telephone:**
- Emergency Chem-Tel 1(800) 255-3924

## Section 2: Hazard(s) Identification

- 2.1 Classification:**
- Eye Irritation – Category 2B  
Skin Irritation – Category 2

**2.2 Labeling:**

Pictograms:



Signal Word: Warning

Hazard Statements

H315 – Cause skin irritation

H320 - Causes eye irritation

Precautionary Statements

P101- If medical advice is needed, product container or label at hand.

P102- Keep out of reach of children.

P103- Read label before use.

P264- Wash exposed skin thoroughly after handling.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P321 – Specific treatment - see Section 4. for first aid instruction.

P332 + P313 – If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338 – IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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**Section 2: Hazard(s) Identification**

P337 + P313 – If eye irritation persists: get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

Storage and Disposal

Store and dispose of contents and container according to manufacturer’s recommendations.

**2.3 Other Hazards:** Product may create aspiration hazard if swallowed or enters airways. Product contains ingredients that may cause physical or health hazards on their own but are not likely to have the same effect as components in this mixture or in the physical state created by this mixture.

**Section 3: Composition/Information on Ingredients**

Chemical Name	CAS #	EINECS/EC	Concentration %
Aluminum Oxide	1344-28-1	215-691-6	25-30
Isoparaffinic Hydrocarbon Solvent	64742-46-7	265-148-2	8-12
C13 – C16 Isoalkanes	68551-20-2	271-370-0	8-12
Octadecenoic Acid Mixture	112-80-1	204-007-1	5-15
Ammonium Hydroxide	1336-21-6	215-647-6	1-5

- Information regarding the composition and the percent ranges for some of the mixture’s ingredients are not presented as it is Confidential Business Information (CBI). Where a medical emergency develops (as determined by a medical professional), timely disclosure of CBI is assured. The CBI pertains to only the names of the substances, chemical index numbers, and their concentration in the mixture (product) and will only be provided to a party with a regulatory right to know.
- Additional non-hazardous ingredients are not listed as to protect the proprietary formula of the product.

**Section 4: First-Aid Measures**

**4.1 Description of first aid measures:**

Inhalation: Seek medical attention immediately if person is unconscious or if there is breathing difficulty. Give artificial respiration and CPR if necessary.

Eye Contact: Rinse eyes thoroughly with potable water for at least 15 minutes and remove contacts if easy to do. Rinse under eyelids. Seek medical attention for abrasion or persistent irritation.

Skin Contact: Wash with mild soap and water. Seek medical attention if irritation develops or persists.

Ingestion: Seek emergency medical attention immediately. DO NOT INDUCE VOMITING. If vomiting is occurring, lean person forward, trying to keep them sitting at rest and comfortable. Monitor breathing. If person is conscious and fully aware allow them to rinse their mouth with water.

**4.2 Most important symptoms and effects:**

Inhalation: May irritate the nose, throat, and respiratory tract. Coughing, sneezing, and shortness of breath may occur.

Eye Contact: May cause irritation, redness, or permanent eye damage.

Skin Contact: May cause irritation or redness.

Ingestion: May cause irritation to mouth, throat, and gastrointestinal tract.

**4.3 Indication of any immediate medical attention and special treatment needed:** See Section 4.1.

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**Section 5: Fire-Fighting Measures**

- 5.1 Extinguishing media:** Product is not flammable. Use appropriate extinguishing media for fire adjacent to product.
- 5.2 Special hazards arising from the substance or mixture:** None known.
- 5.3 Advice to firefighters:** Suitable protective body suits, eye protection and respiratory protection devices should be worn.

**Section 6: Accidental Release Measures**

- 6.1 Personal precautions:** In case of accidental release, use caution as floors may become slippery. Wear appropriate protective equipment and clothing during clean-up as recommended in Section 8. Wear respirator if airborne concentrations have the potential to exceed exposure limits.
- 6.2 Environmental precautions:** Product should be prevented from entering drains or discharging into surface or ground water. Should a release of this product enter a US waterway and cause a film or sheen, the National Response Center (NRC) must be notified within 24 hours at (800) 424-8802.
- 6.3 Methods and materials for containment and cleaning up:** Use absorbent materials to soak up spill if small and contained. Scoop up absorbent material mixture in a conventional manner and clean area with absorbent towels or a dry-sorb product. Spilled product should be placed in suitable container for proper disposal according to all federal, state and local regulations.
- 6.4 Reference to other sections:** Use information obtained throughout this SDS to be fully prepared in case of accidental release.

**Section 7: Handling and Storage**

- 7.1 Precautions for safe handling:** Avoid contact with skin and eyes. Persons handling the product should wear recommended personal protective equipment (PPE) such as gloves and eye protection. Do not ingest. Avoid breathing dust, mists or vapors when using the product. Wash thoroughly with potable water and mild soap after handling.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed and in a dry and well-ventilated place. Observe label precautions. Only store in original container. Storage temperature should not be below 32°F or above 150°F. Product is considered stable but may react with strong oxidizers.
- 7.3 Specific end uses:** See Section 1 for intended uses.

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

- 8.1 Control parameters:** Note the limits shown below are for guidance only. Follow applicable regulations in your jurisdiction.

Substance Name	Source	Exposure Limit
C13-C16 Isoalkanes <sup>(3)</sup>	ACGIH TLV	--
	OSHA PEL	--
	NIOSH REL	--
Total Dust (or Particulates Not Otherwise Classified) <sup>(4)</sup>	ACGIH TLV	10 (I) / 3 (R)
	OSHA PEL	15 (T) / 5 (R)
	NIOSH REL	10 (T) / 5 (R)
Isoparaffinic Hydrocarbon Solvent <sup>(5)</sup>	ACGIH TLV	100 ppm
	OSHA PEL	2,900 ppm
	NIOSH REL	350 (20,000 IDLH)

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

1. Units –are mg/m<sup>3</sup> unless otherwise noted.
2. “-” - Not available.
3. Manufacturer’s recommendation for Isoalkanes is 400 ppm.
4. Total(T)/respirable(R)/inhalable(I) particles or mist exposure limits presented are presented in mg/m<sup>3</sup>. Exposure to dust may occur during buffing of dry polish, or if product becomes excessively dried out.
5. Exposure limits presented are for similar compounds as no exposure limits exist for the particular ingredient used in this product.
6. Exposure limits are not available for the other ingredients in this product.

**8.1.1 Currently recommended monitoring procedures:** No recommendations.

**8.1.2 Exposure guidelines for air contaminants, if any:** See Section 8.1

**8.1.3 DNELS and PNECS for exposure scenarios:** Information not available at this time.

**8.1.4 Control banding for risk management:** Use good industrial hygiene practice, wear appropriate PPE and use local ventilation.

**8.2 Exposure Controls:**

**8.2.1 Appropriate engineering controls:** Use ventilation when feasible to remove and prevent buildup of vapors/fumes.

**8.2.2 Individual protection methods:** Use good industrial hygiene practices in handling this material. Eye wash stations should be available. Wash exposed skin and face thoroughly with potable water and mild soap after use. If any irritation or redness is noted, treat symptomatically or consult a medical doctor. Wear nitrile gloves, safety glasses, and protective clothing to prevent skin contact. In case of eye contact, flush with plenty of clean, potable water for at least 15 minutes. Remove contacts if easy to do so. Seek medical attention immediately. Avoid inhalation and direct contact with skin and eyes. Wash contaminated skin before eating, drinking or smoking.

**8.2.3 Personal Protect Equipment (PPE):**

**Eye/Face:** Recommend that safety glasses be worn for protection.

**Skin:** Avoid contact. Gloves should be worn. Wash exposed skin thoroughly with potable water and mild soap.

**Feet:** Wear suitable foot protection to avoid potential slips if product is dropped on the floor.

**Respiratory:** If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respirator if qualified and trained. Dust mask or respirator is recommended during buffing of dried product.

**Section 9: Physical and Chemical Properties**

<b>Physical State:</b>	Paste
<b>Color:</b>	Pink
<b>Odor:</b>	Slight (ammonia) to no odor
<b>Odor Threshold:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Freezing Point:</b>	32°F (0°C)
<b>Initial Boiling Point:</b>	Not determined
<b>Flammability (solid, gas):</b>	Product is not flammable
<b>Lower and Upper Explosive Limits/Flammability Limit:</b>	Not determined
<b>Flash Point:</b>	Not flammable
<b>Auto-Ignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not evaluated

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### Section 9: Physical and Chemical Properties

<b>pH:</b>	8.5
<b>Kinematic Viscosity:</b>	Not evaluated
<b>Solubility:</b>	Dispersible
<b>Partition Coefficient:</b>	Not evaluated
<b>Vapor Pressure</b>	Not evaluated
<b>Density (and/or Relative Density):</b>	Not evaluated
<b>Relative Vapor Density:</b>	Not evaluated
<b>Particle Characteristics:</b>	Not applicable

### Section 10: Stability and Reactivity

**10.1 Reactivity:** May react with strong oxidizers or strong acids.

**10.2 Chemical stability:** Stable under recommended conditions of storage and use.

**10.3 Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid:** Avoid contact with incompatible materials. Avoid temperatures above 150°F/65°C or below 32°F/0°C. Some ingredients decompose at elevated temperatures.

**10.5 Incompatible materials:** Incompatible materials and possible hazardous reactions are detailed above.

**10.6 Hazardous decomposition or byproducts:** Dependent on temperature, air supply, and the presence of other materials. Carbon monoxide and Carbon dioxide are products of decomposition. Hazardous polymerization will not occur.

### Section 11: Toxicological Information

#### 11.1 Information on toxicological effects:

##### **Acute Exposure and Symptoms:**

**Inhalation:** May irritate the nose, throat, and respiratory tract. Coughing, sneezing, and shortness of breath may occur following exposure.

**Eye Contact:** May cause severe irritation, abrasions, redness, and permanent eye damage.

**Skin Contact:** May cause irritation or redness.

**Ingestion:** May cause irritation to mouth, throat, and gastrointestinal tract.

##### **Chronic Exposure:**

No data exists for chronic exposure to the product itself; however, chronic exposure to some components of the product can cause skin, gastrointestinal tract and eye injuries.

#### 11.2 Numerical Measures of Toxicity

No information exists for the product itself.

#### 11.3 Component Carcinogenicity

This product does not contain any substances listed as a known or suspected carcinogens.

#### 11.4 Other Toxicological Information

**Reproductive toxicity:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Respiratory or skin sensitization:** No information exists for the product itself. Product does not contain ingredients that are skin or respiratory sensitizers at >0.1%.

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### Section 11: Toxicological Information

Specific target organ toxicity, single/repeat exposures: Not classified. Prolonged skin contact with the product may cause irritation.

Aspiration hazard: Product may create an aspiration hazard if swallowed and then regurgitated and sucked into the respiratory tract.

### Section 12: Ecological Information (non-mandatory)

#### 12.1 Ecotoxicity:

**General Product Information:** No information is available for the product. Avoid release to the environment.

**Component Analysis - Ecotoxicity:** No ecotoxicity data are available for this product.

**Environmental Fate:** No information available for the product.

### Section 13: Disposal Considerations (non-mandatory)

#### 13.1 Waste treatment methods:

**General Product Information:** Whatever cannot be saved or recovered for recycling should be disposed of according to state and local regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

### Section 14: Transport Information (non-mandatory)

#### 14.1 Transportation Information:

Department of Transportation (DOT): Polishing Compound; Class 55, no DOT Number.

Canadian TDG Information: Product is not regulated.

IMDG: Product is not regulated.

### Section 15: Regulatory Information (non-mandatory)

#### 15.1 Safety, health, and environmental regulation:

##### US Federal Regulations

**General Product Information:** All components are on the U.S. EPA TSCA Inventory List.

##### State Regulations

**General Product Information:** Other state regulations may apply. Check individual state requirements.

**California Prop. 65 Components:** No component of this product present at  $\geq 0.1\%$  is listed on the California Proposition 65 List.

##### Carcinogenic categories

##### **National Toxicology Program (NTP):**

Product is not listed. No components of the product are listed.

##### **International Agency for Research on Cancer (IARC):**

Product is not listed. No components of the product are listed.

##### **Environmental Protection Agency (EPA):**

Product is not listed. No components of the product are listed.

##### **American Conference of Governmental Industrial Hygienists (ACGIH):**

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### Section 15: Regulatory Information (non-mandatory)

Product is not listed. No components of the product are listed.

**National Institute for Occupational Safety and Health (NIOSH):**

Product is not listed. No components of the product are listed.

**Occupational Safety & Health Administration (OSHA)**

Product is not listed. No components of the product are listed.

### Section 16: Other Information

#### Other Information

**Disclaimer:** The information presented in this SDS is based on the information available at the time of authoring. This information is considered to be reliable and accurate at the time of authoring but is not guaranteed to be so after publication since conditions of use are beyond the control of Rolite Company, no warranties are made, expressed or implied, except those that may be contained in written contracts of sale or acknowledgment.

#### **Key to Abbreviations and Acronyms:**

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS#:	Chemical Abstracts Service Registry Number
EC:	European Community
EINECS:	European Inventory of Existing Commercial Chemical Substances
EPA:	Environmental Protection Agency
EU:	European Union
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
HCS:	Hazard Communication Standard
IARC:	International Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health
IMDG:	International Maritime Code for Dangerous Goods
I:	Inhalable Particles
LC50:	Lethal concentration in air fatal to 50 percent of test animals
LD50:	Lethal dose by mouth or other route to 50 percent of test animals
LDLo:	Lowest Lethal Dose
NIOSH:	National Institute for Occupational Safety and Health
NOS:	Not Otherwise Specified
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration (USA)
PNEC:	Predicted No Effect Concentration
PNOC:	Particulates Not Otherwise Classified
PPM:	Parts Per Million in air by volume
R:	Respirable Particles
RID:	Regulations Concerning the International Transport of Goods by Rail
STEL:	Short Term Exposure Limit
T:	Total Dust
TLV:	Threshold Limit Value
TSCA:	Toxic Substance Control Act
TWA:	Time Weighted Average

**Revision History:** This safety data sheet has been updated based on new information on product ingredients and formatted to align with GHS Revision 3 and OSHA HCS 2012.

**End of Safety Data Sheet**