

# SAFETY DATA SHEET


Surfactrode refill paste

## Section 1. Identification

**GHS product identifier** : Surfactrode refill paste

**Other means of identification** : Not available.

**Product use** : Laboratory chemicals.

**Supplier's details** :  **Manufacturer**  
**Metrohm AG**  
Ionenstrasse  
9100 Herisau  
Switzerland  
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Fax: +41 (0)71 353 89 01  
E-Mail: [info@metrohm.com](mailto:info@metrohm.com)  
Web: [www.metrohm.com](http://www.metrohm.com)

Supplier  
**Metrohm USA, Inc.**  
9250 Camden Field Parkway  
Riverview, FL 33578  
USA

Tel.: +1 (813) 316 4700  
Fax: +1 (813) 316 4900  
E-Mail: [info@metrohmusa.com](mailto:info@metrohmusa.com)

**e-mail address of person responsible for this SDS** : [datasheet@metrohm.com](mailto:datasheet@metrohm.com)

**Emergency telephone number (with hours of operation)** : USA Domestic: 1 800 535 5053; International: (001) 352 323 3500 (24 h, GBK / Inffrac ID 108225)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A

### GHS label elements

**Hazard pictograms** :



**Signal word** : Warning

**Hazard statements** : Causes skin irritation.  
Causes serious eye irritation.

### Precautionary statements

## Section 2. Hazards identification

<b>Prevention</b>	: Wear protective gloves. Wear eye or face protection. Wash hands thoroughly after handling.
<b>Response</b>	: Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: Not applicable.
<b>Hazards not otherwise classified</b>	: None known.
<b>Hazards identified when used</b>	: <input checked="" type="checkbox"/> No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Mixture
<b>Other means of identification</b>	: Not available.

Ingredient name	Synonyms	%	Identifiers
<input checked="" type="checkbox"/> Synthetic graphite	Stove black; Silver graphite; Plumbago; Mineral carbon; Black lead; Graphite - All forms except graphite fibres	≥65 - ≤85	CAS: 7782-42-5
Paraffin waxes and Hydrocarbon waxes	MALAM; Fischer-Tropsch wax; Paraffin wax; Paraffin wax, petroleum; Poly(methylene) wax; Synthetic paraffin wax, Fischer-Tropsch; SYNTHETIC WAX; Wax, extract; Paraffin wax fume; E 905; microcrystalline wax; Paraffin	≥10 - ≤30	CAS: 8002-74-2
1,3-didecyl-2-methyl-1H-imidazolium chloride	1,3-didecyl-2-methylimidazol-1-ium chloride	≥3 - ≤7	CAS: 70862-65-6
sodium dodecyl sulphate	Sulfuric acid monododecyl ester sodium salt (1:1); Sulfuric acid monododecyl ester sodium salt; Sulfuric acid, monododecyl ester, sodium salt; Dodecyl hydrogen sulfate; Sodium dodecyl sulfate; SODIUM LAURYL SULFATE; Dodecyl sodium sulphate; ethylcellulose, in the form of an aqueous dispersion containing hexadecan-1-ol (CAS RN 36653-82-4) and sodium dodecyl sulphate (CAS RN 151-21-3), containing by weight 27 (± 3) % of ethylcellulose; SODIUM MONODODECYL SULFATE; SODIUM LAURYL SULFATE, DENTAL GRADE; SODIUM LAURYL SULFATE 30%	≥1 - ≤5	CAS: 151-21-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

## Section 3. Composition/information on ingredients

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog). Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : No specific fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
sulfur oxides  
halogenated compounds  
metal oxide/oxides  
hydrogen chloride

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## Section 7. Handling and storage

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
Synthetic graphite	<p><b>NIOSH REL (United States, 10/2020)</b> TWA 10 hours: 2.5 mg/m<sup>3</sup>. Form: Respirable fraction.</p> <p><b>CAL OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 5 mg/m<sup>3</sup>. Form: respirable fraction.</p> <p>TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total dust.</p> <p><b>OSHA PEL Z3 (United States, 6/2016)</b> TWA 8 hours: 15 mppcf.</p> <p><b>OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 15 mg/m<sup>3</sup>. Form: Total dust. TWA 8 hours: 5 mg/m<sup>3</sup>. Form: Respirable fraction.</p> <p><b>OSHA PEL 1989 (United States, 3/1989)</b> TWA 8 hours: 2.5 mg/m<sup>3</sup>. Form: Respirable dust.</p> <p><b>ACGIH TLV (United States, 1/2024)</b> TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Respirable fraction.</p>
Paraffin waxes and Hydrocarbon waxes	<p><b>NIOSH REL (United States, 10/2020)</b> <b>[PARAFFIN WAX FUME]</b> TWA 10 hours: 2 mg/m<sup>3</sup>. Form: Fume.</p> <p><b>CAL OSHA PEL (United States, 5/2018)</b> TWA 8 hours: 2 mg/m<sup>3</sup>.</p> <p><b>OSHA PEL 1989 (United States, 3/1989)</b> TWA 8 hours: 2 mg/m<sup>3</sup>.</p> <p><b>ACGIH TLV (United States, 1/2024)</b> <b>[Paraffin wax fume]</b> TWA 8 hours: 2 mg/m<sup>3</sup>. Form: Fume.</p>
1,3-didecyl-2-methyl-1H-imidazolium chloride	None.
sodium dodecyl sulphate	None.

#### Biological exposure indices

None known.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## Section 8. Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Recommended:** Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	: Solid. [Paste.]
<b>Color</b>	: Gray. Black.
<b>Odor</b>	: Odorless.
<b>Odor threshold</b>	: Not available.
<b>pH</b>	: Not applicable.
<b>Melting point/freezing point</b>	: Not available.
<b>Boiling point or initial boiling point and boiling range</b>	: Not available.
<b>Flash point</b>	: Not applicable.
<b>Evaporation rate</b>	: Not available.
<b>Flammability</b>	: Not available.
<b>Lower and upper explosion limit/flammability limit</b>	: Not applicable.
<b>Vapor pressure</b>	: Not available.
<b>Relative vapor density</b>	: Not applicable.
<b>Relative density</b>	: Not available.

## Section 9. Physical and chemical properties

<b>Solubility in water</b>	: Insoluble.
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Not applicable.
<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: <input checked="" type="checkbox"/> Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): Not available.
<b>Explosive properties</b>	: Not available.
<b>Oxidizing properties</b>	: Not available.
<b>Particle characteristics</b>	
<b>Median particle size</b>	: Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: The product is stable.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Keep away from heat, sparks and flame.
<b>Incompatible materials</b>	: Reactive or incompatible with the following materials: Strong oxidizing materials
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result and Species	Dose [Exposure]	Remarks
<input checked="" type="checkbox"/> Paraffin waxes and Hydrocarbon waxes	Oral - Rat - Male, Female - LD50 [OECD 401]	>5000 mg/kg	read-across
	Dermal - Rat - Male, Female - LD50 [OECD 402]	>2000 mg/kg	read-across
sodium dodecyl sulphate	Oral - Rat - Female - LD50 [OECD 401]	977 mg/kg	-
	Dermal - Rat - Male, Female - LD50 [OECD 402]	>2000 mg/kg	test substance: CAS no. 142-31-4 (read-across)
	Inhalation - - - - Dusts and mists [Estimated.]	1.51 mg/l [4 hours]	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result and Species	Exposure	Remarks
Paraffin waxes and Hydrocarbon waxes  sodium dodecyl sulphate	Skin - Rabbit - Not irritant - [OECD 404]	Duration of treatment/ exposure: 4 hours	read-across
	Eyes - Rabbit - Not irritant - [OECD 405]	-	read-across
	Skin - Rabbit - Irritant - [OECD 404]	Duration of treatment/ exposure: 24 hours	-
	Eyes - Rabbit - Severe irritant - [OECD 405]	-	-

### Conclusion/Summary

**Skin** : Causes skin irritation.  
**Eyes** : Causes serious eye irritation.  
**Respiratory** : Not available.

### Respiratory or skin sensitization

Product/ingredient name	Route of exposure and Species	Result	Remarks
Paraffin waxes and Hydrocarbon waxes	skin - Guinea pig [OECD 406]	Not sensitizing	read-across
sodium dodecyl sulphate	skin - Guinea pig	Not sensitizing	-

### Conclusion/Summary

**Skin** : Based on available data, the classification criteria are not met.  
**Respiratory** : Not available.

### Mutagenicity

Product/ingredient name	Result	Experiment	Remarks
Paraffin waxes and Hydrocarbon waxes  sodium dodecyl sulphate	Negative [Ames]	Bacteria	Escherichia coli/ Salmonella typhimurium
	Negative	Mammalian-Animal	-
	Negative [OECD 474]	Mouse	-
	Negative [OECD 471, Ames]	In vitro - Bacteria	Escherichia coli/ Salmonella typhimurium
	Negative [OECD 476]	In vitro - Mouse	-
	Negative [OECD 478]	Mouse - Oral	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
1,3-didecyl-2-methyl-1H-imidazolium chloride	Category 3	-	Respiratory tract irritation
sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
 pain or irritation  
 watering  
 redness  
**Inhalation** : No specific data.  
**Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

Product/ingredient name	Result and Species	Dose [Exposure]	Remarks
Paraffin waxes and Hydrocarbon waxes	Oral - Sub-chronic - Rat - Male, Female - -	1500 mg/kg [90 days]	read-across
	Dermal - Chronic - Mouse - Male - -	≥150 mg/kg [2 years]	read-across

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Surfactode refill paste	24183.2	N/A	N/A	N/A	37.1
Paraffin waxes and Hydrocarbon waxes	N/A	N/A	N/A	N/A	N/A
sodium dodecyl sulphate	977	N/A	N/A	N/A	1.5

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result [Exposure]	Species	Remarks
Sodium dodecyl sulphate	Acute - LC50 29 mg/l [96 hours] [OECD 203]	Fish - <i>Pimephales promelas</i>	-
	Chronic - NOEC ≥1.36 mg/l [42 days]	Fish - <i>Pimephales promelas</i>	ECHA
	Acute - EC50 >120 mg/l [72 hours]	Algae - <i>Desmodesmus subspicatus</i>	Static
	Chronic - NOEC 0.88 mg/l [7 days]	Daphnia - <i>Ceriodaphnia dubia</i>	US-EPA
	Acute - EC50 5.55 mg/l [48 hours] [OECD 202]	Daphnia - <i>Ceriodaphnia dubia</i>	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Persistence and degradability

Product/ingredient name	Test	Result	Remarks
Sodium dodecyl sulphate	OECD 301B	95% [28 days] - Readily	-

**Conclusion/Summary** : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Sodium dodecyl sulphate	-	-	Readily

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Sodium dodecyl sulphate	0.83	3.9 to 5.3	Low

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

**Mobility** : Not available.

## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
<b>UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>UN proper shipping name</b>	-	-	-	-	-	-
<b>Transport hazard class(es)</b>	-	-	-	-	-	-
<b>Label</b>						
<b>Packing group</b>	-	-	-	-	-	-
<b>Environmental hazards</b>	No.	No.	No.	No.	Marine Pollutant: No	No.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** :  Not intended.

## Section 15. Regulatory information

### U.S. Federal regulations

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

## Section 15. Regulatory information

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A

#### Composition/information on ingredients

Name	%	Classification
1,3-didecyl-2-methyl-1H-imidazolium chloride	≥3 - ≤7	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
sodium dodecyl sulphate	≥1 - ≤5	FLAMMABLE SOLIDS - Category 2 COMBUSTIBLE DUSTS ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

### State regulations

**Massachusetts** : The following components are listed: GRAPHITE (NATURAL)DUST; PARAFFIN WAX FUME

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: GRAPHITE (NATURAL); PARAFFIN WAX

**Pennsylvania** : The following components are listed: GRAPHITE; PARAFFIN WAXES AND HYDROCARBON WAXES

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

### EPA PFAS Compilation from Comptox

Not listed.

### TSCA 8(a)7 - One-time Reporting PFAS

Not listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## Section 15. Regulatory information

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### OECD Comprehensive Global PFAS Database

Not listed.

### Inventory list

**Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.

**Taiwan** : All components are listed or exempted.

**Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### National Fire Protection Association (U.S.A.)



### Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	Calculation method Calculation method

### History

**Date of printing** : 08/13/2025

**Date of issue/Date of revision** : 08/13/2025

**Date of previous issue** : 09/25/2023

**Version** : 4

**Key to abbreviations** :

- ADR = Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- DOT = Department of Transportation
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SGG = Segregation Group
- TDG = Transportation of Dangerous Goods
- UN = United Nations

**References** : Not available.

🔵 Indicates information that has changed from previously issued version.

### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.