

**SAFETY DATA SHEET****NEU-212I GRAPHITE T85XF**

Version Number 1.0  
Revision Date 11/17/2025

Page 1 of 21  
Print Date 11/18/2025

**SAFETY DATA SHEET****NEU-212I GRAPHITE T85XF****Section 1. Identification**

**GHS product identifier** : NEU-212I GRAPHITE T85XF  
**Chemical name** : Mixture  
**CAS number** : Mixture  
**Other means of identification** : CC10407522  
**Product type** : solid

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Industrial applications.

**Supplier's details** : **AVIENT CORPORATION**  
 33587 Walker Road, Avon Lake, OH 44012  
 1 (440) 930-1000 or 1 (844) 4AVIENT

**Emergency telephone number (with hours of operation)** : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

**Section 2. Hazards identification**

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.  
**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.  
**Response** : Not applicable.  
**Storage** : Not applicable.

## SAFETY DATA SHEET

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
Revision Date 11/17/2025

Page 2 of 21  
Print Date 11/18/2025

**Disposal** : Not applicable.  
**Hazards not otherwise classified** : None known.  
**Hazards identified when used** : No known significant effects or critical hazards.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture  
**Chemical name** : NEU-212I GRAPHITE T85XF  
**Other means of identification** : NEU-212I GRAPHITE T85XF

Ingredient name	Synonyms	%	Identifiers
Aluminum	Aluminium powder (pyrophoric)	>= 7 - <= 13	CAS: 7429-90-5
White mineral oil (petroleum)	White mineral oil (petroleum)	>= 1 - <= 5	CAS: 8042-47-5
Formamide, N,N'-1,6-hexanediybis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	N,N'-1,6-hexanediybis(N-(2,2,6,6-tetramethyl-piperidin-4-yl)-formamide	>= 1 - <= 5	CAS: 124172-53-8
Carbon black	carbon black non-respirable	>= 1 - <= 5	CAS: 1333-86-4
Benzene, ethyl-	ethylbenzene	> 0 - <= 1	CAS: 100-41-4
Styrene	styrene	> 0 - <= 1	CAS: 100-42-5

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.**

**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. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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. Get medical attention if symptoms occur.

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 3 of 21  
 Print Date 11/18/2025

**Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**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.

See toxicological information (Section 11)

**Section 5. Fire-fighting measures**

**Extinguishing media**

**Suitable extinguishing media** : In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.  
**Unsuitable extinguishing media** : None known.

**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, phosphorus oxides, metal

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 4 of 21  
 Print Date 11/18/2025

oxide/oxides

- 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. 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. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, 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).
- 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

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 5 of 21  
 Print Date 11/18/2025

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.

**Section 8. Exposure controls/personal protection**

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Aluminum	<p><b>CAL OSHA PEL (2018-05-16). [aluminum pyro powders]</b>                      TWA 8 hours: 5 mg/m3 Form: powder  <b>NIOSH REL (2010-09-01). [ALUMINUM]</b>                      TWA 10 hours: 5 mg/m3 Form: Respirable fraction                      TWA 10 hours: 10 mg/m3 Form: Total  <b>OSHA PEL 1989 (1989-03-01). [Aluminum, (as Al) Metal]</b>                      TWA 8 hours: 5 mg/m3 (Calculated as Al) Form: WELD_FUM                      TWA 8 hours: 5 mg/m3 (Calculated as Al) Form: PYRO                      TWA 8 hours: 5 mg/m3 (Calculated as Al) Form: Respirable fraction                      TWA 8 hours: 15 mg/m3 (Calculated as Al) Form: Dust  <b>OSHA PEL (1993-06-30). [Aluminum Metal (as Al)]</b>                      TWA 8 hours: 5 mg/m3 (Calculated as Al) Form: Respirable fraction                      TWA 8 hours: 15 mg/m3 (Calculated as Al) Form: Total dust  <b>NIOSH REL (2010-09-01). [aluminum pyro powders and welding fumes as Al]</b>                      TWA 10 hours: 5 mg/m3 (Calculated as Al) Form: PYRO                      POWDERS AND WELDING FUMES  <b>CAL OSHA PEL (2018-05-16). [aluminum metal and oxide]</b>                      TWA 8 hours: 10 mg/m3 Form: Total dust                      TWA 8 hours: 5 mg/m3 Form: Respirable fraction  <b>ACGIH TLV (2008-01-01). [Aluminum, metal and insoluble compounds] A4.</b>                      TWA 8 hours: 1 mg/m3 Form: Respirable fraction</p>
White mineral oil (petroleum)	<p><b>OSHA PEL (1993-06-30). [Oil mist, mineral]</b>                      TWA 8 hours: 5 mg/m3</p>

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 6 of 21  
 Print Date 11/18/2025

	<p><b>NIOSH REL (2010-09-01). [OIL MIST MINERAL]</b>                  TWA 10 hours: 5 mg/m3 Form: Mist                  STEL 15 minutes: 10 mg/m3 Form: Mist  <b>ACGIH TLV (2009-11-30). [Mineral Oil, pure, highly and severely refined] A4.</b>                  TWA 8 hours: 5 mg/m3 Form: Inhalable fraction</p>
<p>Formamide, N,N'-1,6-hexanediyldis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-</p>	<p>None.</p>
<p>Carbon black</p>	<p><b>CAL OSHA PEL (2018-05-16). [carbon black]</b>                  TWA 8 hours: 3.5 mg/m3  <b>ACGIH TLV (2010-12-06). [Carbon black] A3.</b>                  TWA 8 hours: 3 mg/m3 Form: Inhalable fraction  <b>NIOSH REL (2010-09-01). [carbon black] See Appendix A - NIOSH Potential Occupational Carcinogen.</b>                  TWA 10 hours: 0.1 mg/m3 (as cyclohexane-extractable fraction)                  TWA 10 hours: 3.5 mg/m3  <b>OSHA PEL 1989 (1989-03-01). [Carbon black]</b>                  TWA 8 hours: 3.5 mg/m3  <b>OSHA PEL (1993-06-30). [Carbon black]</b>                  TWA 8 hours: 3.5 mg/m3</p>
<p>Benzene, ethyl-</p>	<p><b>CAL OSHA PEL (2018-05-16). [ethylbenzene]</b>                  TWA 8 hours: 22 mg/m3 5 ppm                  STEL 15 minutes: 130 mg/m3 30 ppm  <b>ACGIH TLV (2022-01-06). [ethyl benzene] A3. Ototoxicant.</b>                  TWA 8 hours: 20 ppm  <b>NIOSH REL (2010-09-01). [ETHYL BENZENE]</b>                  STEL 15 minutes: 545 mg/m3 125 ppm                  TWA 10 hours: 435 mg/m3 100 ppm  <b>OSHA PEL 1989 (1989-03-01). [Ethyl benzene]</b>                  STEL 15 minutes: 545 mg/m3 125 ppm                  TWA 8 hours: 435 mg/m3 100 ppm  <b>OSHA PEL (1993-06-30). [Ethyl benzene]</b>                  TWA 8 hours: 435 mg/m3 100 ppm</p>
<p>Styrene</p>	<p><b>CAL OSHA PEL (2018-05-16). [styrene (monomer)] Absorbed through skin.</b>                  TWA 8 hours: 215 mg/m3 50 ppm                  CEIL: 500 ppm                  STEL 15 minutes: 425 mg/m3 100 ppm  <b>ACGIH TLV (2020-03-01). [styrene] A3. Ototoxicant.</b>                  STEL 15 minutes: 20 ppm                  TWA 8 hours: 10 ppm</p>

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 7 of 21  
 Print Date 11/18/2025

	<p><b>NIOSH REL (2010-09-01). [STYRENE]</b>                  STEL 15 minutes: 425 mg/m<sup>3</sup> 100 ppm                  TWA 10 hours: 215 mg/m<sup>3</sup> 50 ppm  <b>OSHA PEL 1989 (1989-03-01). [Styrene]</b>                  STEL 15 minutes: 425 mg/m<sup>3</sup> 100 ppm                  TWA 8 hours: 215 mg/m<sup>3</sup> 50 ppm  <b>OSHA PEL Z2 (1993-06-30). [Styrene]</b>                  PEAK 5 minutes: 600 ppm                  CEIL: 200 ppm                  TWA 8 hours: 100 ppm</p>
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**Biological exposure indices**

<b>Ingredient name</b>	<b>Exposure indices</b>
Benzene, ethyl-	<p><b>ACGIH BEI (2024-01-18) [ethyl benzene]</b>                      BEI - 150 mg/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift</p>

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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: safety glasses with side-shields.
- 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.
- Body protection** : Personal protective equipment for the body should be selected based

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 8 of 21  
 Print Date 11/18/2025

- Other skin protection** : on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- : 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.

**Section 9. Physical and chemical properties**

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

Appearance

- Physical state** : solid [Pellets.]
- Color** : GREY
- Odor** : Faint odor.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : Not available.
- Flash point** : Not applicable.
- Evaporation rate** : Not available.
- Flammability** : Not available.
- Lower and upper explosion limit/flammability limit** : **Lower:** Not applicable.  
**Upper:** Not applicable.
- Vapor pressure** : Not available.
- Relative vapor density** : Not applicable.
- Relative density** : Not available.
- Solubility in water** : insoluble in water.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not available.
- Viscosity** : **Dynamic** : Not available.



**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 9 of 21  
 Print Date 11/18/2025

**Kinematic** : Not available.

**Particle characteristics**

**Median particle size** : Not available.

**Section 10. Stability and reactivity**

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Keep away from extreme heat and oxidizing agents.
- Incompatible materials** : Keep away from strong acids. Oxidizer.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**Section 11. Toxicological information**

**Information on toxicological effects**

**Acute toxicity**

<b>Product/ingredient name</b>	<b>Result</b>
White mineral oil (petroleum)	<b>Rat - Oral - LD50</b> 5,000 mg/kg <b>Rat - Dermal - LD50</b> 2,000 mg/kg
Carbon black	<b>Rat - Oral - LD50</b> 15,400 mg/kg
Benzene, ethyl-	<b>Rat - Oral - LD50</b>

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 10 of 21  
 Print Date 11/18/2025

	3,500 mg/kg <b>Rabbit - Dermal - LD50</b> 5,000 mg/kg
Styrene	<b>Rat - Oral - LD50</b> 2,650 mg/kg <b>Rat - Inhalation - LC50 Gas.</b> 2770 ppm [4 h] <b>Rat - Inhalation - LC50 Vapor</b> 11.8 Mg/l [4 h]

**Conclusion/Summary** : Mixture.Not fully tested.

**Skin corrosion/irritation**

Product/ingredient name	Result
Benzene, ethyl-	<b>Rabbit - Skin - Mild irritant</b> <u>Duration of treatment/exposure:</u> 24 hrs
Styrene	<b>Rabbit - Skin - Mild irritant</b> <b>Rabbit - Skin - Moderate irritant</b>

**Conclusion/Summary** : Mixture.Not fully tested.

**Serious eye damage/eye irritation**

Product/ingredient name	Result
Benzene, ethyl-	<b>Rabbit - Eyes - Severe irritant</b>
Styrene	<b>Human - Eyes - Mild irritant</b> <b>Rabbit - Eyes - Severe irritant</b> <b>Rabbit - Eyes - Moderate irritant</b> <u>Duration of treatment/exposure:</u> 24 hrs

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory corrosion/irritation**

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory or skin sensitization**

**Skin**

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 11 of 21  
 Print Date 11/18/2025

**Conclusion/Summary** : Mixture.Not fully tested.

**Respiratory**

**Conclusion/Summary** : Mixture.Not fully tested.

**Germ cell mutagenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Carcinogenicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
Carbon black	-	2B	-
Benzene, ethyl-	-	2B	-
Styrene	-	2A	Reasonably anticipated to be a human carcinogen.

**Reproductive toxicity**

**Conclusion/Summary** : Mixture.Not fully tested.

**Specific target organ toxicity (single exposure)**

Product/ingredient name	Result
Formamide, N,N'-1,6-hexanedylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Product/ingredient name	Result
Benzene, ethyl-	ASPIRATION HAZARD - Category 1

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 12 of 21  
 Print Date 11/18/2025

**Information on the likely routes of exposure**

Not available.

**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

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

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- 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**

Not available.

**Conclusion/Summary** : Mixture. Not fully tested.

- 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.

**Numerical measures of toxicity**

**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 13 of 21  
 Print Date 11/18/2025

White mineral oil (petroleum)	5000 mg/kg	N/A	N/A	N/A	N/A
Carbon black	15400 mg/kg	N/A	N/A	N/A	N/A
Benzene, ethyl-	3500 mg/kg	5000 mg/kg	N/A	N/A	N/A
Styrene	2650 mg/kg	N/A	2770 ppm	11.8 Mg/l	N/A

**Section 12. Ecological information**

**Toxicity**

<b>Product/ingredient name</b>	<b>Result</b>
NEU-212I GRAPHITE T85XF	<b>Remarks:</b> Chemicals are not readily available as they are bound within the polymer matrix.
Aluminum	<p><b>Acute LC50 Fresh water</b>                      Fish - <i>Oncorhynchus mykiss</i>                      0.12 Mg/l [96 h]</p> <p><b>Acute LC50 Fresh water</b>                      Daphnia - <i>Daphnia magna</i>                      38 Mg/l [48 h]</p> <p><b>Chronic NOEC Fresh water</b>                      Aquatic plants - <i>Ceratophyllum demersum</i>                      9 Mg/l [72 h]</p>
Carbon black	<p><b>Acute EC50 Fresh water</b>                      Daphnia - <i>Daphnia magna</i>                      37.563 Mg/l [48 h]</p>
Benzene, ethyl-	<p><b>Acute LC50 Fresh water</b>                      Fish - <i>Oncorhynchus mykiss</i>                      4.2 Mg/l [96 h]</p> <p><b>Acute EC50 Marine water</b>                      Crustaceans - <i>Artemia sp.</i>                      6.53 Mg/l [48 h]</p> <p><b>Acute EC50 Fresh water</b>                      Daphnia - <i>Daphnia magna</i>                      2.93 Mg/l [48 h]</p> <p><b>Acute EC50 Marine water</b>                      Algae - <i>Skeletonema costatum</i>                      4.9 Mg/l [72 h]</p> <p><b>Acute EC50 Marine water</b></p>

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 14 of 21  
 Print Date 11/18/2025

	Algae - <i>Skeletonema costatum</i> 7.7 Mg/l [96 h]
Styrene	<b>Acute LC50 Fresh water</b> Fish - <i>Pimephales promelas</i> 4.02 Mg/l [96 h] <b>Acute EC50 Fresh water</b> Daphnia - <i>Daphnia magna</i> 0.0047 Mg/l [48 h] <b>Acute LC50 Marine water</b> Crustaceans - <i>Artemia salina</i> 52 Mg/l [48 h] <b>Acute EC50 Marine water</b> Algae - <i>Skeletonema costatum</i> 78 Mg/l [96 h]

**Conclusion/Summary** : Not available.

**Persistence and degradability**

Not available.

**Conclusion/Summary** : Chemicals are not readily available as they are bound within the polymer matrix.

**Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
White mineral oil (petroleum)	6	-	High
Formamide, N,N'-1,6-hexanedylbis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	0.8	-	Low
Benzene, ethyl-	3.6	-	Low
Styrene	2.96	13.49	Low

**Mobility in soil**

**Soil/Water partition coefficient** : Not available.  
**Mobility** : Chemicals are not readily available as they are bound within the polymer matrix.

**Other adverse effects**

No known significant effects or critical hazards.

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 15 of 21  
 Print Date 11/18/2025

**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. 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**

U.S.DOT 49CFR : Not regulated for transportation.  
 Ground/Air/Water

IATA : Not classified as dangerous goods under transport regulations.

IMDG : Not classified as dangerous goods under transport regulations.

**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)** : Listed

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

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

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

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 16 of 21  
 Print Date 11/18/2025

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 : Not applicable.

Composition/information on ingredients

No products were found.

Name	%	Classification
Formamide, N,N'-1,6-hexanediyldis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-	>= 1 - <= 5	SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Respiratory tract irritation - Category 3
Benzene, ethyl-	> 0 - <= 1	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
Styrene	> 0 - <= 1	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY - inhalation - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B

**SARA 313**

Form R - Reporting requirements

Product name	CAS number	%
Aluminum	7429-90-5	>= 7 - <= 13
Benzene, ethyl-	100-41-4	> 0 - <= 1



**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 17 of 21  
 Print Date 11/18/2025

Styrene	100-42-5	> 0 - <= 1
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**Supplier notification**

Product name	CAS number	%
Aluminum	7429-90-5	>= 7 - <= 13
Benzene, ethyl-	100-41-4	> 0 - <= 1
Styrene	100-42-5	> 0 - <= 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

**State regulations**

- Massachusetts** : The following components are listed:  
 Aluminum  
 White mineral oil (petroleum)  
 Carbon black
- New York** : None of the components are listed.
- New Jersey** : The following components are listed:  
 ALUMINUM  
 CARBON BLACK  
 COPPER compounds  
 ETHYL BENZENE  
 STYRENE MONOMER
- Pennsylvania** : The following components are listed:  
 ALUMINUM DUSTALUMINUM PYRO  
 POWDERSALUMINUMALUMINUM WELDING  
 FUMESALUMINUM PRODUCTION  
 CARBON BLACK  
 COPPER COMPOUNDS

**California Prop. 65**

**⚠ WARNING:** This product can expose you to chemicals including Carbon black, Ethyl benzene, Styrene, which are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level
Carbon black	-	-
Ethyl benzene	Yes.	-

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 18 of 21  
 Print Date 11/18/2025

Styrene	Yes.	-
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**International regulations**

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

**Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule II Chemicals**

None of the components are listed.

**Chemical Weapons Convention List Schedule III Chemicals**

None of the components are listed.

**Montreal Protocol**

None of the components are listed.

**Stockholm Convention on Persistent Organic Pollutants**

**Annex A - Elimination - Production**

None of the components are listed.

**Annex A - Elimination - Use**

None of the components are listed.

**Annex B - Restriction - Production**

None of the components are listed.

**Annex B - Restriction - Use**

None of the components are listed.

**Annex C - Unintentional - Production**

None of the components are listed.

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

**Rotterdam Convention on Prior Informed Consent (PIC) - Industrial**

None of the components are listed.

**Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide**

None of the components are listed.

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

Page 19 of 21  
 Print Date 11/18/2025

**Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide**

None of the components are listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals**

**Heavy metals - Annex 1**

None of the components are listed.

**POPs - Annex 1 - Production**

None of the components are listed.

**POPs - Annex 1 - Use**

None of the components are listed.

**POPs - Annex 2**

None of the components are listed.

**POPs - Annex 3**

None of the components are listed.

**Inventory list**

- Australia** : All components are listed or exempted.
- Canada** : At least one component is not listed in DSL but all such components are listed in NDSL.
- China** : All components are listed or exempted.
- Eurasian Economic Union** : **Russian Federation inventory:** All components are listed or exempted.
- Japan** : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : All components are listed or exempted.

**Section 16. Other information**

**Hazardous Material Information System (U.S.A.)**

<b>Health</b>	/	0
<b>Flammability</b>		0

**SAFETY DATA SHEET**

**NEU-212I GRAPHITE T85XF**

Version Number 1.0  
 Revision Date 11/17/2025

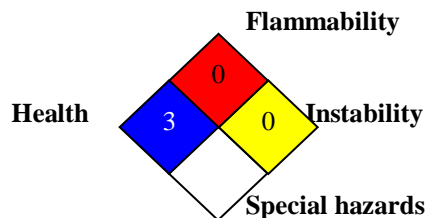
Page 20 of 21  
 Print Date 11/18/2025

Physical hazards	0
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**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

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



Procedure used to derive the classification

Not classified.

History

- Date of printing : 11/18/2025
- Date of issue/Date of revision : 11/17/2025
- Date of previous issue : 00/00/0000
- Version : 1.0
- Prepared by : SHELKED
- Key to abbreviations :
  - 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
  - IMO = International Maritime Organization
  - 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
  - SGG = Segregation Group
  - TDG = Transportation of Dangerous Goods

## SAFETY DATA SHEET

### NEU-212I GRAPHITE T85XF

Version Number 1.0  
Revision Date 11/17/2025

Page 21 of 21  
Print Date 11/18/2025

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**References**  
**Notice to reader**

UN = United Nations  
: Not available.

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