

1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Name: ReleaSys™ HTX-G
Graphite Release Agent

Product Use: High Temperature Release Agent

MANUFACTURER/DISTRIBUTOR:

Miller-Stephenson Chemical
55 Backus Ave.
Danbury, Conn. 06810 USA
(203) 743-4447

Emergency Phone Number:
(800) 424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

Flammable aerosols: Category 2

Aspiration hazard: Category 1

Skin corrosion/irritation: Category 2

Serious eye damage/eye irritation: Category 2A

Reproductive toxicity: Category 2

Specific target organ toxicity - single exposure: Category 3

Specific target organ toxicity - repeated exposure: Category 1

Label elements:

Signal word

Danger

Pictograms



Hazard Statements

Flammable aerosol.

May be fatal if swallowed and enters airways.

Causes serious eye irritation.

Causes skin irritation.

May cause drowsiness or dizziness

Suspected of damaging fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

Do not handle until all safety precautions have been read and understood.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Do not breathe mist/vapors/spray.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse.

Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

Call a POISON CENTER or doctor/ physician if you feel unwell.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local, regional, or international regulations.

3. INGREDIENTS

<u>Material (s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Hexane	110-54-3	55 – 65
1,1,1,2-Tetrafluoroethane	811-97-2	30 – 45

4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Eye: Flush with large amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue to rinse. Get medical attention if necessary.

Skin: Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical attention. Wash contaminated clothing before use.

Oral: Call a physician or poison control center immediately. Rinse mouth. DO not induce vomiting.

Most important symptoms/effects, acute and delayed: Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache, Nausea, vomiting. Severe irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

General information: Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice. Ensure the medical personnel are aware of the material involved (show the label, if possible), and take precautions to protect themselves. Show this safety data sheet to the doctor. Wash contaminated clothing before use.

5. FIRE FIGHTING MEASURES

Flammability: This product is flammable.

Test Method: Ignition distance test and Enclosed space ignition test

Fire and Explosion: Containers may rupture under fire conditions. Decomposition may occur. Vapors or gases may ignite at distant ignition sources and flash back.

Suitable Extinguishing Media: Water fog, Foam, Dry chemical, Carbon dioxide (CO₂)

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Special Fire Fighting Instruction: Use water spray to cool containers. Do not allow run-off from firefighting to enter drains and water sources. Do not breathe fumes or vapors from fire. Self-contained breathing apparatus (SCBA) maybe required, if a large amount of material is spilled under fire conditions. Fight fire from a distance, heat may rupture containers. Vapors may travel a considerable distance and flash back.

6. ACCIDENTAL RELEASE MEASURES

Flammable aerosol. Eliminate all ignition sources. Evacuate personnel, ventilate area with fresh air, if a large amount is accidental released, use self-contained breathing apparatus. Dike spill. Prevent material from entering sewers, waterways or low areas. Soak up with sand, oil dry or other noncombustible absorbent materials. Caution: Contaminated surfaces may be slippery.

7. HANDLING AND STORAGE

Handling: Use in a well-ventilated area to avoid breathing vapors. Vapors may travel a considerable distance and flash back. Do not spray on an open flame or other ignition source. Use only with adequate ventilation. Use appropriate respiratory protection, when ventilation is inadequate. When using do not eat, drink, or smoke. Avoid contact with skin, eyes or clothing Wash thoroughly after handling.

Storage Conditions: Store in a clean, dry place that is well-ventilated. Do not store near sources of heat, in direct sunlight or where temperatures exceed 125°F/52°C. Do not pierce or burn, even after use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Hexane

TWA (ACGIH)

50 ppm

PEL (OSHA)

500ppm

Respiratory Protection: Avoid breathing vapors, mists or spray. Use with sufficient ventilation especially for enclosed or low places. Use chemical respirator with organic vapor cartridge and full facepiece. In poorly ventilated areas, use an approved self-contained breathing apparatus.

Eye Protection: Avoid eye contact. Use chemical goggles or safety glasses with side shields.

Skin Protection: Avoid contact with skin. Use chemically resistant gloves and clothing.

General Hygiene: Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 156°F/69°C

Percent Volatile by Volume: N.A.

Density: 0.65 g/cc at 77°F/25°C

Vapor Pressure: N/A

Vapor Density (Air=1): N.A.

Solubility in H₂O: N.A.

pH Information: N.A.

Evaporation Rate (CC14=1): N.A.

Form: Aerosol

Appearance: Clear

Color: Straw Yellow

Odor: Mild

10. STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions (storage, use and transport)

Chemical Stability: Stable at normal temperatures and storage conditions.

Material and Conditions to Avoid: Strong oxidizing agents. Keep away from extreme heat, sparks, open flame other ignition sources.

Decomposition: No hazardous decomposition products are known.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Hexane

Acute Toxicity: May be fatal if swallowed and enters airways.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin sensitization: Not expected to cause skin sensitization.

Respiratory sensitization: Not a respiratory sensitizer.

Germ cell mutagenicity: No data available

Carcinogenicity: Not classified as to carcinogenicity to humans.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Suspected of damaging fertility or unborn child.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: May be fatal if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Hexane

Fish Acute & Prolonged Toxicity

LC50, fathead minnow (*Pimephales promelas*), flow-through, 96 h: 2.5 mg/l

Persistence and degradability: No data available on the degradability.

Bioaccumulative potential: Partition coefficient n-octanol/water (log Kow): 3.9

Mobility in soil: No data available.

13. DISPOSAL CONSIDERATIONS

Comply with federal, state and local regulations. Remove to a permitted waste disposal facility.

14. TRANSPORT INFORMATION

U.S. DOT

Limited Quantity

IATA

Proper Shipping Name: Aerosols, Flammable

Hazard Class: 2.1

Identification No. UN1950

Packing Group: None

IMDG

Proper Shipping Name: Aerosols, Flammable

Hazard Class: 2.1

Identification No. UN1950

Packing Group: None

15. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA: All ingredients are listed in TSCA inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D): Not regulated

CERCLA Hazardous Substance List: Hexane (110-54-3) is Listed

SARA 304 Emergency release notification: Not regulated

SARA 302 Extremely hazardous substance: Not listed

SARA 311/312 Hazardous chemical: Yes

US State Regulations

California Prop. 65

WARNING: This product can expose you to Hexane, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

NPCA-HMIS Ratings:

Health	- 2
Flammability	- 3
Reactivity	- 0

Personal Protective rating to be supplied by user depending on the conditions

FOR INDUSTRIAL USE ONLY

DATE: MARCH 2022

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.