


1. Product and Company Identification
<div>Product Identification</div> <div>Foundry Mold Release HP</div>
<div>Product Code</div> <div>FR-4-HP</div>
<div>Use</div> <div>Release Agent</div>
<div>Company Name</div> <div>GENERAL CHEMICAL CORP</div>
<div>Company Address</div> <div>12336 Emerson Dr Brighton MI 48116 USA</div>
<div>Transportation (General Chemical Corp)</div> <div>(248)587-5600</div>
<div>Emergency Phone (Day or Night)</div> <div>(800)424-9300</div>
<div>Number (Call Collect from Outside U.S.A)</div> <div>+1 703-527-3887</div>
2. Hazard Identification
<div>GHS Hazard Categories</div> <div><ul style="list-style-type: none">Flammable Gases Cat 2Aspiration hazard Cat 2Specific target organ tox, single exp. Cat 1</div>
2.2 GHS Label Elements
<div>GHS Signal Word</div>
<div><div>GHS Pictogram</div><div><ul style="list-style-type: none">Flame<ul style="list-style-type: none">Health Hazard</div></div>



- Environment



GHS Hazard Statements

- H225: Highly flammable liquid and vapour
- H304: May be fatal if swallowed and enters airways
- H315: Causes skin irritation
- H372: Causes damage to organs through prolonged or repeated exposure

GHS Precautionary Statements

- P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233: Keep container tightly closed
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P333+313: If skin irritation or a rash occurs: Get medical advice/attention
- P370+378: In case of fire: Use foam or dry chemical for extinction
- P403+235: Store in a well ventilated place. Keep cool
- P501: Dispose of contents/container in accordance with local/regional/national regulations

3. Composition / Information on Ingredients

List

Chemical Name(s)	CAS Number	% Weight
n- heptane	64742-49-0	80 - 100
Siloxanes and silicones, dimethy	63148-62-9	10 - 30

4. First Aid Measures

Inhalation

If adverse effects such as dizziness, nausea, or irritation are noted, move person to fresh air. If not breathing, give artificial respiration. Get medical attention!

Skin Contact

Immediately wash skin with large amounts of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

Eye Contact

Flush eyes immediately with water for at least 15 minutes. If irritation persists, call a physician.

Ingestion

DO NOT INDUCE VOMITING! Contact a physician immediately!
5. Firefighting Measures
5.1 Extinguishing Media Water fog, foam, dry chemical, or carbon dioxide.
5.2 Unusual Fire & Explosion Hazard In extreme fire conditions, this material may present a floating fire hazard. Concentrated vapors can be ignited by a high intensity ignition source.
5.3 Advice for Firefighters Firefighters should wear a self-contained breathing apparatus with a full facepiece operated in pressure demand or other positive pressure mode, and protective clothing.
Flash Point: < 20 °F (typical) Method Used: Setaflash Closed Cup Flammable Limits in Air % by Volume: LEL: 1 UEL: 8 ; for solvent naphtha.
6. Accidental Release Measures
If material is spilled, eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area; place in closed containers for disposal. Ventilate confined spaces. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Continue to observe precautions for volatile, combustible vapors from absorbed material. CERCLA (Superfund) Reportable Quantity (in lbs): This material is covered by CERCLA's petroleum exclusion (40 CFR 300.5), therefore, releases are not reportable under EPA-CERCLA.
7. Handling and Storage
7.1 Precautions for Safe Handling Avoid contact with skin and eyes; wash thoroughly after handling. Avoid breathing vapor; use with adequate ventilation.
7.2 Conditions for Safe Storage, Including Any Incompatibilities Store in area approved for flammables. Ground all containers when transferring material. Keep container closed and maintain all original markings and labels. Keep this container and vapors from this container away from heat, sparks, flame, and other ignition sources.
7.3 Specific End Use Considerations CAUTION! Do not use cutting or welding torches on containers, even when empty. Containers, even those that have been emptied, will retain product residue and vapors. Do not reuse container without recycling or reconditioning. Handle empty containers as if they were full.
8. Exposure Control/Personal Protection
Eye Protection

Safety glasses with side shields. Do NOT wear contact lenses. Chemical goggles and/or faceshield should be worn where splashing is possible
Skin and Body Protection Eye wash and safety shower should be readily available. Wear a chemical resistant apron and boots where splashing is possible
Respiratory Protection Use NIOSH / MSHA approved respirator where high vapor or mist concentrations are present.
Hand Protection Protective Gloves: Wear chemical resistant gloves
Hygiene Measures Protective equipment and clothing should be selected, used and maintained according to applicable standards and regulations. For further information, contact the clothing or equipment manufacturer. Do not eat, drink, or smoke while using this product. Wash hands prior to eating, drinking, smoking, or using restrooms. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of the work shift.
 Local Exhaust: Do not use in closed or confined spaces. Open doors and/or windows. Use ventilation to maintain exposure levels below exposure limits. Mechanical Exhaust: Mechanical ventilation should be sufficient to maintain exposure levels below exposure limits.
9. Physical and Chemical Properties
Appearance Clear, colorless liquid
Specific Gravity (H2O=1) 0.72-0.73
% volatile by volume 86-88%
% solid by weight 12-14%
Weight per gallon 5.9 - 6.1 lbs/gal
Theoretical VOC 5.1 - 5.3 lbs/gal
Odor Solvent odor
pH

N/A, product is solvent based.
Boiling Point 194 °F (initial)
Vapor Pressure ~ 119 @ 100 ° F
Vapor Density ~ 3.3
Water Solubility Negligible.
Reactivity in Water: None. Analytical VOC (EPA Method 24) : N/E
10. Stability and Reactivity
Known Hazardous Reactions Hazard Polymerization: Will not occur.
Conditions to Avoid EXTREMELY FLAMMABLE! Avoid heat, sparks, or open flame. Prevent vapor accumulation.
Incompatible Materials Strong oxidizing agents
Hazardous Decomposition Products Unidentified organic compounds and oxides of carbon.
11. Toxicological Information
Solvent naphtha, light aliphatic [CASRN 064742-89-8] ACUTE TOXICITY: Oral LD50 (rat) > 7.1 g/kg Eye Irritation: minimal irritation [Rabbit] Dermal LD50 (rabbit) > 2.84 g/kg Dermal Irritation: slight irritation [Rabbit, 24 hrs] Inhalation LD50 (rat) = 15,000 ppm, 4 hrs Subchronic Testing: While there is no evidence that industrially acceptable levels of light hydrocarbon vapors (e.g., the occupational exposure limit) have produced cardiac effects in humans, animal studies have shown that inhalation of high levels produced cardiac sensitization. Such sensitization may cause fatal changes in heart rhythms, which was shown to be enhanced by hypoxia or the injection of adrenaline-like substances. Neurotoxicity: Prolonged and repeated exposures to high concentrations of some volatile hydrocarbon solvents have resulted in hearing loss in rats. Solvent abusers and noise interaction with these solvents in the work environment may cause symptoms of hearing loss. Other Testing: Kidney effects in male rats were observed in laboratory animals exposed to a similar material. Effects were consistent with male rat hyaline droplet nephropathy which is of questionable significance to human health. Mutagenicity: Some effects to chromosomes but no mutagenic effects were observed in

genotoxicity studies conducted for similar hydrocarbon solvent mixtures. The biological significance of the chromosomal findings is unknown. [18,7-18,18,7-060500]
Modified Silicone Fluid [Proprietary] ACUTE TOXICITY: Inhalation LC50 (rat) ~ 4 mg/L, 4 hr (estimated*) *Toxicological testing of similar products in 1994: Two groups of five male and five female albino Sprague Dawley rats were exposed for 4 hours, using whole-body exposure methods, to aerosol concentrations of 1.2 and 1.9 mg/L. If concentrations higher than 1.9 mg/L could be generated and extrapolating upward from the two available data points, the 4 hour LC50 would be approximately 4 mg/L. [6-6,15,17,O,B,F,F,18,18,0,5,18-020800]
12. Ecological Information
13. Disposal Considerations
Product Disposal Considerations: In accordance with all federal, state and local requirements.
RCRA HAZARD CLASS D001
14. Transportation Information
Hazardous Material Description (Proper shipping name, hazard class, hazard ID#, packing group): Domestic ground non-bulk: UN1206, HEPTANES, 3, PG II Domestic ground bulk: UN1206, HEPTANES, 3, PG II International: UN1206, HEPTANES, 3, PG II
15. Regulatory Information
SARA TITLE III (313): 'This product contains the following chemical(s) above deminis concentrations and may be subject to reporting under section 313: None
HMIS-Health: 2
HMIS-Fire: 3
HMIS-Reactivity: 0
NFPA-Health: 2
NFPA-Flammability: 3
NFPA-Reactivity:

0
16. Other Information
SDS Revision: 10/19/2020
Date: 12/8/2019
SDS Author: General Chemical Corp
Additional Information:
Disclaimer: <p>The development of this Safety Data Sheet (SDS) relies upon information provided to us by each of our raw material suppliers. This SDS will be updated as changes occur to their SDS(s).</p> <p>We believe the recommendations and technical information contained herein to be accurate. However, they are given without warranty or guarantee, expressed or implied, and we assume no responsibility for losses or damage, direct or indirect, as a result of their use.</p>

HEALTH	2
FIRE	3
REACTIVITY	0
PPE	0

