


1. Product and Company Identification
<div>Product Identification</div> <div>SSI-4453</div>
<div>Company Name</div> <div>General Chemical Corp</div>
<div>Company Address</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"><li>Flammable Liq Cat 2</li><li>Acute tox, oral Cat 4</li><li>Skin corrosion/irritation Cat 2</li><li>Serious eye damage/eye irritation Cat 2</li><li>Specific target organ tox, single exp. Cat 3 (narcotic effects)</li><li>Germ cell mutagenicity Cat 1</li><li>Carcinogenicity Cat 1</li><li>Reproductive tox Cat 2</li><li>Specific target organ tox, repeat exp. Cat 2</li><li>Hazard to aquatic environment, acute Cat 1</li><li>Hazard to aquatic environment, chronic Cat 2</li></ul></div>
2.2 GHS Label Elements
<div>GHS Signal Word</div> <div>Danger</div>
<div>GHS Pictogram</div> <div><ul style="list-style-type: none"><li>Flame</li></ul><div></div><ul style="list-style-type: none"><li>Health Hazard</li></ul></div>



- Environment



- Exclamation Mark



### GHS Hazard Statements

- H225: Highly flammable liquid and vapour
- H302: Harmful if swallowed
- H315: Causes skin irritation
- H319: Causes serious eye irritation
- H336: May cause drowsiness or dizziness
- H340: May cause genetic defects
- H350: May cause cancer
- H361d: Suspected of damaging the unborn child
- H373: May cause damage to organs through prolonged or repeated exposure
- H400: Very toxic to aquatic life
- H411: Toxic to aquatic life with long lasting effects

### GHS Precautionary Statements

- P201: Obtain special instructions before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking
- P233: Keep container tightly closed
- P235: Keep cool
- P240: Ground/bond container and receiving equipment
- P241: Use explosion-proof electrical/ventilating/light/.../equipment
- P242: Use only non-sparking tools
- P243: Take precautionary measures against static discharge
- P260: Do not breathe dust/fume/gas/mist/vapours/spray
- P264: Wash thoroughly after handling
- P270: Do not eat, drink or smoke when using this product
- P271: Use only outdoors or in a well-ventilated area
- P273: Avoid release to the environment
- P280: Wear protective gloves/protective clothing/eye protection/face protection
- P314: Get Medical advice/attention if you feel unwell
- P321: Specific treatment (see ... on this label)
- P330: Rinse mouth
- P362: Take off contaminated clothing and wash before reuse

- P374: Fight fire with normal precautions from a reasonable distance
- P391: Collect spillage
- P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
- P308+313: IF exposed or concerned: Get medical advice/attention
- P332+313: If skin irritation occurs: Get medical advice/attention
- P337+313: If eye irritation persists get medical advice/attention
- P403: Store in a well ventilated place
- P405: Store locked up
- P501: Dispose of contents/container in accordance with local/regional/national regulations

3. Composition / Information on Ingredients

List

Chemical Name(s)	CAS Number	% Weight
Toluene	108-88-3	80 - < 90
"Siloxanes and Silicones, Di-Me"	63148-62-9	3 - < 5
Aluminum	149-57-5	3 - < 5
Stoddard Solvent	8052-41-3	1 - < 3
Other components below reportable levels		< 0.2

4. First Aid Measures

Inhalation

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

Skin Contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. 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. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information: Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**5. Firefighting Measures**

Suitable extinguishing media: Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

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

Specific hazards arising from the chemical: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions: In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: Highly flammable liquid and vapor.

**6. Accidental Release Measures**

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and Storage

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

Conditions for safe storage, including any incompatibilities: Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

## 8. Exposure Control/Personal Protection

### Appropriate Engineering Controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use

process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
<b>Eye Protection</b> Chemical respirator with organic vapor cartridge and full facepiece.
<b>Skin and Body Protection</b> Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Chemical resistant gloves.
<b>Respiratory Protection</b> Chemical respirator with organic vapor cartridge and full facepiece.
<b>Hand Protection</b> Chemical resistant gloves.
<b>Hygiene Measures</b> When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
Thermal hazards: Wear appropriate thermal protective clothing, when necessary.
<b>9. Physical and Chemical Properties</b>
<b>Reactivity in Water</b> NONE
<b>Analytical VOC (EPA method 24)</b> 6.8-7 lbs/gal
<b>Appearance</b> Silvery liquid
<b>Specific Gravity (H20=1)</b> 0.8-1.0
<b>% volatile by volume</b> 92-94
<b>% solid by weight</b> 6-8
<b>Weight per gallon</b> 7.1-7.6 lbs/gal
<b>Odor</b> Aromatic solvent

<b>Odor Threshold</b> Not available.
<b>pH</b> Not available.
<b>Melting Point</b> Not available.
<b>Freezing Point</b> Not available.
<b>Boiling Point</b> 239 °F (115 °C)
<b>Flash Point</b> < 50.0 °F (< 10.0 °C) Tag Closed Cup
<b>Flammability (liquid)</b> Not available.
<b>Evap. Rate</b> Not available.
<b>Upper Explosive Limit</b> 7.1 % (V) (Solvent)
<b>Lower Explosive Limit</b> 1.2 % (V) (Solvent)
<b>Vapor Pressure</b> < 20 mm Hg
<b>Vapor Density</b> 3
<b>Density</b> 0.8 - 1
<b>Water Solubility</b> Not Available
<b>Partition Coeff (Oct/Water LogPow)</b> Not Available
<b>Auto-Ignition Temp</b> Not Available
<b>Decomp Temp</b>

Not Available
<b>Viscosity</b> Not Available
Other information:  Dynamic viscosity: Not Available  Flammability class: Flammable IB estimated  Thermal hazards: Relative self-ignition temperature: Not Available
<b>10. Stability and Reactivity</b>
<b>10.1 Reactivity Information</b> Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Known Hazardous Reactions</b> Hazardous polymerization does not occur.
<b>Conditions to Avoid</b> Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible Materials</b> Strong oxidizing agents.
<b>Hazardous Decomposition Products</b> No hazardous decomposition products are known.
<b>11. Toxicological Information</b>
<b>Carcinogenicity</b> May cause cancer.
Information on likely routes of exposure:  Ingestion: Harmful if swallowed. Inhalation: Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by inhalation. Skin contact: Causes skin irritation. Eye contact: Causes serious eye irritation.  Symptoms related to the physical, chemical and toxicological characteristics: Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.



Information on toxicological effects:

Acute toxicity: Harmful if swallowed. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Skin corrosion/irritation: Causes skin irritation.

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

Respiratory or skin sensitization:

Respiratory sensitization: Not available.

Skin sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: May cause genetic defects.

Reproductive toxicity: Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure: Narcotic effects.

Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not available.

Chronic effects: Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

12. Ecological Information

Ecotoxicity: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

13.1 Waste Treatment Methods

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Product Disposal Considerations:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Packaging Disposal Considerations:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>Miscellaneous Advice:</b>  Waste from residues / unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>RCRA HAZARD CLASS</b>  Toluene (CAS 108-88-3): U220
<b>14. Transportation Information</b>
 DOT Domestic ground non-bulk: UN1294, TOLUENE SOLUTION., 3,PG II Domestic ground bulk: RQ UN1294, TOLUENE SOLUTION., 3,PG II International: RQ UN1294, TOLUENE SOLUTION., 3,PG II
<b>15. Regulatory Information</b>
<b>Federal and State Regulations:</b>  This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
<b>HMIS-Health:</b>  1
<b>HMIS-Fire:</b>  3
<b>HMIS-Reactivity:</b>  0
<b>NFPA-Health:</b>  1
<b>NFPA-Flammability:</b>  3
<b>NFPA-Reactivity:</b>  0
 TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.  CERCLA Hazardous Substance List (40 CFR 302.4): Toluene (CAS 108-88-3) Listed.  SARA 304 Emergency release notification: Not regulated.  US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

SARA 302 Extremely hazardous substance: Not listed.
SARA 311/312 Hazardous chemical: No
SARA 313 (TRI reporting): Toluene (CAS: 108-88-3) 80 - < 90 by wt. Aluminum (CAS: 7429-90-5) 3 - < 5 by wt.
<b>16. Other Information</b>
<b>SDS Revision:</b> 12/29/2020
<b>Date:</b> 7/10/2019
<b>SDS Author:</b> General Chemical Corp
<b>Additional Information:</b>
<b>Disclaimer:</b> 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). 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.

HEALTH	1
FIRE	3
REACTIVITY	0
PPE	0

