# Safety Data Sheet - GHS

## StaSolv 100 2.0

Date of Revision: March 15, 2022

## Section 1 - Chemical Product and Company Identification

| | |
|---|---|
| **Product Name** | StaSolv 100 |
| **Synonyms** | StaSolv 100 2.0 |
| **Product Use** | Wax Solvent, Dispersant |
| **Restriction on Use** | None identified |
| **Manufacturer/Supplier** | CFR Chemicals<br>38451 Range Road 22<br>County of Red Deer T4E 2N6 |
| **General Assistance** | 1 (877) 269-3419 |
| **Emergency Telephone** | **613-966-6666 (CANUTEC 24 Hour Phone Number)** |
| **Date of Preparation of SDS** | April 1, 2017 |

## Section 2 – Hazard Identification

**Signal Word** Danger

**GHS Pictogram(s)**

**Target Organs** Narcotic Effects

Hazard Statement:

| | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 + H320 | Causes skin irritation and causes eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H401 | Toxic to aquatic life |

Precautionary Statement

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical, ventilating, lighting and all material-handling 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 skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/eye protection/face protection. |

Response

| | |
|---|---|
| P321 | Specific Treatment: see response statements on the label |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTRE / DOCTOR. |
| P331 | DO NOT induce vomiting. |
| P302 + P352 | IF ON SKIN: Wash with plenty of water. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water / shower. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313 | If exposed or concerned: get medical advice / attention. |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P370 + P378 | In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish. |

Storage

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|---|---|
| P403 + P233 | Store in well-ventilated place. Keep contained tightly closed. |
| P403 + P235 | Store in well-ventilated place. Keep cool. |
| P405 | Store locked up. |

Disposal

| | |
|---|---|
| P501 | Dispose of contents/container to an approved waste disposal unit. |

**GHS Classification**

Flammable liquids (Category 2)
Acute toxicity, dermal (Category 4)
Acute toxicity, inhalation (Category 4)
Skin corrosion/irritation (Category 2)
Serious eye damage/eye irritation (Category 2B)
Carcinogenicity (Category 2)
Specific target organ toxicity - single exposure (Category 3 narcotic effects)
Specific target organ toxicity - repeated exposure: Oral (Category 2)
Aspiration hazard (Category 1)
Hazardous to the aquatic environment, acute hazard (Category 2)

**HMIS Classification**

| | |
|---|---|
| **Health Hazard** | **2** |
| **Chronic Health Hazard** | ***** |
| **Flammability** | **3** |
| **Physical Hazards** | **0** |

**Potential Health Effects**

| | |
|---|---|
| **Inhalation** | May be harmful if inhaled. Causes respiratory tract irritation. |
| **Skin** | May be harmful if absorbed through skin. |
| **Eye** | Causes eye irritation. |
| **Ingestion** | May be harmful if swallowed. |

## Section 3 – Composition Information on Ingredients

| HAZARDOUS INGREDIENT | Hazardous Ingredient, Synonyms | PERCENT | CAS NUMBER |
|---|---|---|---|
| Petroleum Distillate Light | Not available | 15 – 45% | 8002-05-9 |
| n-hexane | n-hexane, normal-Hexane; Hexyl hydride; n-Hexylhydride; n-Caproylhydride; Hexane, normale | 10 – 20% | 110-54-3 |
| Hexane, other isomers | Hexanes | 10 – 20% | * |
| Xylene (o, m, p isomers) | Xylenes; Xylol; methyl toluene, benzene, dimethyl-; dimethylbenzene. | 16 – 30% | 1330-20-7 |
| Heptane | n-heptane, normal-heptane, heptyl hydride | 5 – 10% | 142-82-5 |
| Methylcyclopentane | Methyl cyclopentane, methylpentamethylene | 5 – 10% | 96-37-7 |
| Ethylbenzene | Ethylbenzol; Phenylethane: alpha-Methyltoluene | 0.5 – 10% | 100-41-4 |
| 2-Ethylhexanol | 2-Ethyl-1-hexanol, Isooctanol, Isooctyl Alcohol | 3 – 8% | 104-76-7 |
| Cyclohexane | Hexamethylene; Hexahydrobenzene; Hexanaphthene | 1 – 5% | 110-82-7 |

* = Various ** = Mixture *** = Proprietary

**Chemical Formula** not applicable

## Section 4 - First Aid Measures

**Inhalation** Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that vas of vapour is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

**Skin Contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shows. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** Get medical attention immediately. Call a poison control centre or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. 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 collar, tie, belt or waistband.

**Most Important Symptoms/Effects**

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|---|---|
| Acute | No data available. |
| Delayed | No data available. |
| **Note to Physician** | Treat symptomatically. |

## Section 5 – Fire-Fighting Measures

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|---|---|
| **Flash Point (°C)** | -30°C |
| **Flash Point Method** | PMCC |
| **Auto Ignition Temperature** | Not available. |
| **Conditions of Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/ hot surface. No smoking. |
| **Extinguishing Media** | Use water spray (fog), alcohol-resistant foam, dry chemical or carbon dioxide |
| **Unsuitable Extinguising Media** | Water streams or jet. |
| **Unusual Fire/ Explosion Hazard** | No data available. |
| **Hazardous Combustion Products** | Carbon oxides |
| **Special Protective Equipment and Precautions for Firefighters** | Wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. |

## Section 6 – Accidental Release Measures

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|---|---|
| **Personal precautions** | Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| **Environmental precautions** | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. |
| **Methods and materials for containment and cleaning up** | Contain free liquid if possible. Pick up by covering with an activated carbon absorbent or other suitable inert absorbent material (e.g. sand, sawdust, general-purpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in accordance with local regulations. |

## Section 7 – Handling and Storage

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|---|---|
| **Precautions for safe handling** | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. |
| **Conditions for safe storage** | Keep container tightly closed in a dry and well-ventilated place. |
| **Incompatible Conditions** | Heat, flames and sparks. |
| **Incompatible Materials** | Strong oxidizing agents. Reducing agents. Acids. Alkalis. |

## Section 8 – Exposure Controls / Personal Protection

**Occupational Exposure Limits**

| Ingredient Name | Exposure Limits |
|---|---|
| n-hexane | **Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**<br>TWA: 50ppm<br>**ACGIH TLV (USA, 4/2014). Absorbed through skin.**<br>TWA: 50ppm 8 Hours |
| Hexane, other isomers | **Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**<br>TWA: 500ppm |
| Xylene (o, m, p isomers) | **Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**<br>TWA: 100ppm, 435 mg/m$^3$ 8 Hours<br>STEL: 150ppm, 651 mg/m$^3$ 15 minutes |
| Heptane | **Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)**<br>TWA: 400ppm, 1640 mg/m$^3$ 8 Hours<br>STEL 500ppm, 2050 mg/m$^3$ 15 min |
| Methylcyclopentane | **ACGIH TLV (USA, 4/2014).**<br>TWA: 500ppm, 1760 mg/m$^3$ 8 Hours<br>STEL: 1000ppm, 1050 mg/m$^3$ 15 minutes |
| Ethylbenzene | **ACGIH**<br>TWA: 20ppm 8 Hours<br>STEL: 10000 ppm 15 minutes<br>**OSHA PEL**<br>TWA: 100 ppm, 435 mg/m$^3$ |
| 2-Ethylhexanol | **Not Established** |
| Cyclohexane | **Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)).**<br>TWA: 100ppm, 344 mg/m$^3$ 8 Hours |

**Personal protective equipment**

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|---|---|
| **Eye/face protection** | Chemical safety glasses with side shields to prevent eye contact. As a general rule do not wear contact lenses when handling chemicals. |
| **Skin protection** | Wear chemical resistant gloves, impermeable protective clothing and safety shoes. |
| **Respiratory protection** | Use NIOSH approved respirators and components. |
| **General hygiene Considerations** | Handle in accordance with good industrial hygiene and safety. |
| **Specific engineering controls** | Use mechanical exhaust or laboratory fumehood to avoid exposure. Safety shower, eye wash, and fire extinguisher should be present. |

## Section 9 – Physical and Chemical Properties

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|---|---|---|---|
| **Physical State** | Liquid | **Water Solubility** | Insoluble |
| **Appearance & Odour** | Clear, Pale Amber solution. Distinct odour. | **Boiling Point** | 66°C |
| **Vapour Pressure** | Not available | **Boiling Range** | Not available |
| **Odour Threshold** | Not available | **Melting Point** | <-40°C |
| **Evaporation Rate** | Not available | **Freezing Point** | <-40°C |
| **Vapour Density** | >1 (Air = 1) | **Lower Explosive Limit (LEL)** | Not available |

| | | | |
|---|---|---|---|
| **Specific Gravity** | 0.75-0.79 | **Upper Explosive Limit (UEL)** | Not available |
| **pH** | Not available | **Partition coefficient (n-octonal/water)** | Not available |
| **Flash Point (Method)** | -30°C (PMCC) | **Autoignition Temperature** | Not available |
| **Flammability (Solid, Gas)** | Not applicable | | |
| **Decomposition Temperature** | Not available | **Viscosity** | Not available |

## Section 10 – Stability and Reactivity

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|---|---|
| **Reactivity** | Heating may cause fire. |
| **Chemical stability** | Stable under recommended storage conditions. |
| **Possibility of hazardous reactions** | Under normal conditions of storage and use, hazardous reactions will not occur |
| **Conditions to avoid** | Heat, flames and sparks. |
| **Materials to avoid** | Oxidizing materials. |

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides.
Other decomposition products - No data available

## Section 11- Toxicological Information

**Information on Likely Routes of Exposure**

**Inhalation:**

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

**Skin contact**

Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.

**Eye contact**

Causes eye irritation.

**Eye contact**

May irritate and cause redness and pain..

**Ingestion**

Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhea. May cause irritation to the mouth and throat.

**Acute and Chronic Toxicity**

No data available

**Acute toxicity**

| Product/Ingredient Name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| n-Hexane | LC50 Inhalation gas | Rat | 48000ppm | 4 Hr |
| | LD50 Oral | Rat | 15840mg/kg | - |
| Hexane, other isomers | LC50 Inhalation gas | Rat | 48000ppm | 4 Hr |
| Xylene | LC50 Inhalation gas | Rat | 6350ppm | 4 Hr |
| | LD50 Oral | Rat | 3253mg/kg | - |

| | | | | |
|---|---|---|---|---|
| | LD50 Dermal | Rabbit | 12126mg/kg | 24 Hr |
| Heptane | LD50 Dermal | Rabbit | >2000mg/kg | - |
| | LD50 Oral | Rat | >5000mg/kg | - |
| Ethylbenzene | LD50 Oral | Rat | 5.46g/kg | - |
| | LD50 Dermal | Rabbit | >5000mg/kg | - |
| 2-Ethylhexanol | LD50 Oral | Rat | 3730mg/kg | - |
| | LD 50 Dermal | Rabbit | >3000mg/kg | - |
| Cyclohexane | LC50 Inhalation Vapour | Mouse | 70000mg/m$^3$ | 2 Hr |
| | LD50 Oral | Rat | >5000mg/kg | - |

**Conclusion** **n-hexane:** n-hexane is a CNS depressant and narcosis at elevated concentrations.
**Heptane:** heptane is a CNS depressant and narcosis at elevated concentrations.
**Cyclohexane:** cyclohexane is a CNS depressant and narcosis at elevated concentrations.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation**
Causes eye irritation.

**Respiratory or skin sensitization**
No data available

**Mutagenicity** Not assigned.

**Carcinogenicity** Suspected of causing cancer.

IARC:

| | |
|---|---|
| Ethylbenzene | 2B Possibly carcinogenic to humans |
| Xylene (o, m, p isomers) | 3 Not classifiable as to carcinogenicity in humans |

**Reproductive toxicity** Not assigned.

**Teratogenicity** No known significant effects or critical hazards.

**Specific target organ toxicity - single exposure (Globally Harmonized System)**
May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**
May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**
May be fatal if swallowed and enters airways.

**Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure**

**Short Term Exposure**

**Potential immediate Health Effects** No data available.

**Potential Delayed Health Effects** No data available.

**Long Term Exposure**

**Potential immediate Health Effects** No data available.

**Potential Delayed Health Effects** No data available.

**Potential Chronic Effects** No data available.

**Synergistic effects** No data available

## Section 12 – Ecological Information

**Toxicity**

| Product / Ingredient Name | Result | Species | Exposure |
|---|---|---|---|
| n-hexane | Acute LC50 2500µg/L Fresh Water | Fish – Pimephales promelas | 96 Hr |
| Heptane | Acute EC50 1.5mg/L | Daphnia – Daphnia magna | 48 Hr |
| | Acute LC50 4mg/L | Fish – Carassius auratus | 24 Hr |
| Xylene (o, m, p isomers) | Acute LC50 13.1 - 16.5mg/L | Fish – Lepomis macrochirus | 96 Hr |

| | | | |
|---|---|---|---|
| | Acute LC50 13.5 – 17.3mg/L | Fish – Oncorhynchus mykiss | 96 Hr |
| Ethylbenzene | Acute LC50 4mg/L | Fish – Oncorhynchus mykiss | 96 Hr |
| | Acute EC50 1 – 4mg/L | Daphnia – Daphnia magna | 48 Hr |
| 2-Ethylhexanol | Acute LC50 17.1mg/L | Fish – Leuciscus idus | 96 Hr |
| | Acute EC50 14mg/L | Daphnia – Daphnia magna | 48 Hr |
| Cyclohexane | Acute LC50 4530µg/L Fresh Water | Fish – Pimephales promelas | 96 Hr |

**Persistence and degradability**

Biodegradability No data available

**Bioaccumulative potential**

| Product/Ingredient Name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| n-hexane | 4 | 502 | High |
| Xylene (o, m, p isomers) | 3.2 | Not available | Not available |
| Heptane | 4.66 | 552 | High |
| Methylcyclopentane | 3.37 | - | Low |
| Ethylbenzene | 3.15 | Not available | Not available |
| 2-Ethylhexanol | Not available | Not available | Not available |
| Cyclohexane | 3.44 | 167 | low |

**Mobility in soil** No data available

**PBT and vPvB assessment** No data available

**Other adverse effects** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. 2-Ethylhexanol is harmful to aquatic life.

## Section 13 – Disposal Considerations

**Product** This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging** Dispose of as unused product.

## Section 14 - Transportation Information

CANADA Transportation of Dangerous Goods (TDG)

**Shipping Name** UN1268, PETROLEUM DISTILLATES, N.O.S. (Naptha Solvent), 3. PG II

**Class** 3

**UN Number** UN1268

**Packaging Group:** II

**Label**


**Reportable Quantity** 12345.7 lbs / 5604.9Kg [2177.5 gal / 8242.6L]
Package sizes shipped in quantities less than the product reportable quantity are not subject to the RW transportation requirements.

**Environmental hazards** Not a marine pollutant.

**Transportation in bulk, if applicable** No data available

**Special Precautions** No data available

## Section 15 – Regulatory Information

**DSL (Canadian Domestic Substances List)**
**and CEPA (Canadian Environmental Protection Act)**
All components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

**TSCA Inventory 12(b)** All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

## Section 16 – Other Information

REVISION SUMMARY:

| | |
|---|---|
| Date of Preparation | April 1, 2017 |
| Date of Revision | March 15, 2022 |

SDS Prepared by: CFR Lab Manager

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