Safety Data Sheet - GHS

StaSolv 214

Date of Revision: March 15, 2022

Section 1 - Chemical Product and Company Identification

Product Name	StaSolv 214
Synonyms	StaSolv 214 2.0
Product Use	Wax Solvent, Dispersant
Restriction on Use	None identified
Manufacturer/Supplier	CFR Chemicals 38451 Range Road 22 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		
	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
Monoisopropylamine Sulfonate	Not available	3 – 5%	26264-05-1
Cyclohexane	Hexamethylene; Hexahydrobenzene; Hexanaphthene	1 – 5%	110-82-7
Naptha, petroleum, heavy catalytic reformed**	Heavy aromatic naptha; Heavy aromatic naptha, gasoline re-run overhead; Aromatic hydrocarbon mixture	<1%	64741-68-0
Terpene Hydrocarbon	Not available	<1%	5989-27-5

* = 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

Acute	No data available.
Delayed	No data available.
Note to Physician	Treat symptomatically.

Section 5 – Fire-Fighting Measures

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

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

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)** TWA: 50ppm **ACGIH TLV (USA, 4/2014). Absorbed through skin.** TWA: 50ppm 8 Hours
Hexane, other isomers	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** TWA: 500ppm
Xylene (o, m, p isomers)	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** TWA: 100ppm, 435 mg/m^3 8 Hours STEL: 150ppm, 651 mg/m^3 15 minutes
Heptane	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** TWA: 400ppm, 1640 mg/m^3 8 Hours STEL 500ppm, 2050 mg/m^3 15 min
Methylcyclopentane	**ACGIH TLV (USA, 4/2014).** TWA: 500ppm, 1760 mg/m^3 8 Hours STEL: 1000ppm, 1050 mg/m^3 15 minutes
Ethylbenzene	**ACGIH** TWA: 20ppm 8 Hours STEL: 10000 ppm 15 minutes **OSHA PEL** TWA: 100 ppm, 435 mg/m^3
2-Ethylhexanol	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** Not Established
Monoisopropylamine Sulfonate	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** Not Established
Cyclohexane	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)).** TWA: 100ppm, 344 mg/m^3 8 Hours
Naptha, petroleum, heavy catalytic reformed**	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** Not Established
Terpene Hydrocarbon	**Canada, Alberta, Occupational Health and Safety Cote (table 2: OEL)** TWA: 20ppm

Personal protective equipment

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

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

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	-
Monoisopropylamine Sulfonate	Not determined			
Cyclohexane	LC50 Inhalation Vapour	Mouse	70000mg/m^3	2 Hr
	LD50 Oral	Rat	>5000mg/kg	-
Naptha, petroleum heavy catalytic reformed	LC50 Inhalation gas	Rat	>5.04mg/L	4 Hr
	LD50 Dermal	Rabbit	>2000mg/kg	24 Hr
Terpene Hydrocarbon	LD50 Oral	Rat	>5g/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
Isopropylamine Sulfonate	No data available		
Cyclohexane	Acute LC50 4530µg/L Fresh Water	Fish – Pimephales promelas	96 Hr
Naptha, petroleum heavy catalytic reformed	Acute EC50 – 11mg/L	Pseudokirchneriella subcaptata	72 Hr
Terpene Hydrocarbon	No data available		

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
Naptha, petroleum heavy catalytic reformed	Not available	Not available	Not available
Terpene Hydrocarbon	Not available	Not available	Not available

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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