Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Solvable™ Kerosene Substitute

Version number: 2.0
Replaces version of: 2025-03-21 (1)

Revision: 2025-03-28

1 Identification

1.1 Product identifier

Trade name	**Solvable™ Kerosene Substitute**
Product Code	14-534, 14-535, 14-538

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Professional use Industrial use

1.3 Details of the supplier of the safety data sheet

Recochem Inc.
8725 Holgate Crescent,
Milton Ontario
L9T 5G7
Canada

1-800-361-6030 (Monday-Friday, 9 AM to - 5 PM)
www.recochem.com

1.4 Emergency telephone number

Emergency information service	This number is only for transport emergencies. POISON CONTROL/ANTIPOISON (24 heures/hours): Alberta 1-800-332-1414 British Columbia 1-800-567-8911 Manitoba 1-855-776-4766 New Brunswick 911 Newfoundland and Labrador 1-866-727-1110 Northwest Territories 1-800-332-1414 Nova Scotia and Prince Edward Island 1-800-565-8161, 1-800-332-1414 or 911. Nunavut 1-800-268-9017 Ontario 1-800-268-9017 Quebec 1-800-463-5060 Saskatchewan 1-866-454-1212 Yukon Territory 867-393-8700 United States 1-800-222-1222

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.6	flammable liquid	3	Flam. Liq. 3	H226
3.1D	acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	acute toxicity (inhal.)	3	Acute Tox. 3	H331
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.6	carcinogenicity	2	Carc. 2	H351
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
3.10	aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word danger

- Pictograms

GHS02, GHS06, GHS07, GHS08

- Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

- Precautionary statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311	Call a POISON CENTER/doctor.
P321	Specific treatment (see on this label).
P331	Do NOT induce vomiting.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling stoddard solvent, naphthalene, Distillates (petroleum), hydro-treated light, nonane

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

3 Composition/ Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to GHS

Name of substance	Identifier	Wt%	Classification acc. to GHS	Notes
stoddard solvent	CAS No 8052-41-3	≥ 80	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT RE 1 / H372 Asp. Tox. 1 / H304	
Distillates (petroleum), hydro-treated light	CAS No 64742-47-8	≥ 80	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Asp. Tox. 1 / H304	
1,2,4-trimethylbenzene	CAS No 95-63-6	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
nonane	CAS No 111-84-2	1 – < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304	
naphthalene	CAS No 91-20-3	0.1 – < 1	Flam. Sol. 2 / H228 Acute Tox. 4 / H302 Acute Tox. 1 / H330 Carc. 2 / H351	

Remarks

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.
This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

4 First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

none In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

8 Exposure controls/ Personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
CA	n-nonane	111-84-2	OEL (AB)	200	1,050						OHS Code
CA	n-nonane	111-84-2	OEL (ON-MoL)	200							MoL
CA	nonane	111-84-2	OEL (BC)	200							"BC Regula-

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Ceiling-C [ppm]	Ceiling-C [mg/m³]	Notation	Source
											tion"
CA	nonane	111-84-2	PEV/VEA	200	1,050						Regulation OHS
CA	stoddard solvent	8052-41-3	OEL (AB)	100	572						OHS Code
CA	stoddard solvent	8052-41-3	OEL (ON-MoL)	100							MoL
CA	stoddard solvent	8052-41-3	PEV/VEA	100	525						Regulation OHS
CA	Stoddard solvent (mineral spirits)	8052-41-3	OEL (BC)		290		580				"BC Regulation"
CA	naphthalene	91-20-3	OEL (AB)	10	52	15	79			H	OHS Code
CA	naphthalene	91-20-3	OEL (BC)	10						H	"BC Regulation"
CA	naphthalene	91-20-3	OEL (ON-MoL)	10						H	MoL
CA	naphthalene	91-20-3	PEV/VEA	10						H	Regulation OHS
CA	1,2,4-trimethylbenzene	95-63-6	OEL (BC)	25							"BC Regulation"

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
H	absorbed through the skin
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
stoddard solvent	8052-41-3	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
stoddard solvent	8052-41-3	DNEL	55 mg/m³	human, inhalat-	worker (industry)	acute - systemic

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
				ory		effects
stoddard solvent	8052-41-3	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
stoddard solvent	8052-41-3	DNEL	55 mg/m³	human, inhalatory	worker (industry)	acute - local effects
stoddard solvent	8052-41-3	DNEL	80 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
stoddard solvent	8052-41-3	DNEL	30 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
1,2,4-trimethylbenzene	95-63-6	DNEL	100 mg/m³	human, inhalatory	worker (industry)	acute - local effects
1,2,4-trimethylbenzene	95-63-6	DNEL	16,171 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
nonane	111-84-2	DNEL	773 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
nonane	111-84-2	DNEL	2,035 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
naphthalene	91-20-3	DNEL	25 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
naphthalene	91-20-3	DNEL	25 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
naphthalene	91-20-3	DNEL	3.57 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
stoddard solvent	8052-41-3	PNEC	0.14 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	0.35 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	1.14 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
stoddard solvent	8052-41-3	PNEC	0.14 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	0.12 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
1,2,4-trimethylbenzene	95-63-6	PNEC	0.12 mg/l	aquatic organisms	marine water	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	2.41 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1,2,4-trimethylbenzene	95-63-6	PNEC	2.34 mg/kg	terrestrial organisms	soil	short-term (single instance)
nonane	111-84-2	PNEC	3.6 µg/l	aquatic organisms	freshwater	short-term (single instance)
nonane	111-84-2	PNEC	3.6 µg/l	aquatic organisms	marine water	short-term (single instance)
nonane	111-84-2	PNEC	54 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
nonane	111-84-2	PNEC	0.62 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
nonane	111-84-2	PNEC	0.62 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
nonane	111-84-2	PNEC	0.25 mg/kg	terrestrial organisms	soil	short-term (single instance)
nonane	111-84-2	PNEC	14 µg/l	aquatic organisms	water	intermittent release
naphthalene	91-20-3	PNEC	2.4 µg/l	aquatic organisms	freshwater	short-term (single instance)
naphthalene	91-20-3	PNEC	2.4 µg/l	aquatic organisms	marine water	short-term (single instance)
naphthalene	91-20-3	PNEC	2.9 mg/l	microorganisms	sewage treatment plant (STP)	short-term (single instance)
naphthalene	91-20-3	PNEC	67.2 µg/kg	benthic organisms	sediments	short-term (single instance)
naphthalene	91-20-3	PNEC	67.2 µg/kg	pelagic organisms	sediments	short-term (single instance)
naphthalene	91-20-3	PNEC	53.3 µg/kg	terrestrial organisms	soil	short-term (single instance)
naphthalene	91-20-3	PNEC	20 µg/l	aquatic organisms	water	intermittent release

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	characteristic
Melting point/freezing point	-58 °C
Boiling point or initial boiling point and boiling range	158 – 195 °C
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	not determined
Flash point	43 °C
Auto-ignition temperature	229 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	1.14 cSt at 25 °C
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available

Vapor pressure	0.3 kPa at 20 °C 0.9 kPa at 38 °C

Density and/or relative density

Density	not determined
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)

9.2 Other information

Information with regard to physical hazard classes	there is no additional information

Other safety characteristics

Temperature class (USA, acc. to NEC 500)	T2D (maximum permissible surface temperature on the equipment: 215°C)

10 Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

11 Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Harmful in contact with skin. Toxic if inhaled.

- Acute toxicity estimate (ATE)
Dermal >1,200 $^{mg}/_{kg}$
Inhalation: vapour >2.576 $^{mg}/_{l}$/4h

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
stoddard solvent	8052-41-3	dermal	>3,000 $^{mg}/_{kg}$
stoddard solvent	8052-41-3	inhalation: vapour	>5.5 $^{mg}/_{l}$/4h
Distillates (petroleum), hydro-treated light	64742-47-8	dermal	>2,000 $^{mg}/_{kg}$
Distillates (petroleum), hydro-treated light	64742-47-8	inhalation: vapour	>5.28 $^{mg}/_{l}$/4h
1,2,4-trimethylbenzene	95-63-6	inhalation: vapour	11 $^{mg}/_{l}$/4h
naphthalene	91-20-3	oral	710 $^{mg}/_{kg}$
naphthalene	91-20-3	inhalation: vapour	>0.4 $^{mg}/_{l}$/4h
naphthalene	91-20-3	inhalation: dust/mist	0.005 $^{mg}/_{l}$/4h

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
stoddard solvent	8052-41-3	LC50	0.18 mg/l	fish	96 h
stoddard solvent	8052-41-3	LL50	41.4 mg/l	fish	96 h
stoddard solvent	8052-41-3	EL50	2.5 mg/l	algae	96 h
stoddard solvent	8052-41-3	EC50	0.58 mg/l	algae	96 h
Distillates (petroleum), hydro-treated light	64742-47-8	LL50	5 mg/l	fish	96 h
Distillates (petroleum), hydro-treated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h
1,2,4-trimethylbenzene	95-63-6	LC50	7.72 mg/l	fish	96 h
1,2,4-trimethylbenzene	95-63-6	EC50	2.356 mg/l	algae	96 h
nonane	111-84-2	LL50	1.125 mg/l	fish	96 h
nonane	111-84-2	EC50	0.2 mg/l	aquatic invertebrates	48 h
nonane	111-84-2	EL50	0.2 mg/l	aquatic invertebrates	48 h
naphthalene	91-20-3	LC50	1.6 mg/l	fish	96 h
naphthalene	91-20-3	EC50	2.16 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
stoddard solvent	8052-41-3	EL50	1.19 mg/l	aquatic invertebrates	21 d
stoddard solvent	8052-41-3	EC50	0.33 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydro-treated light	64742-47-8	EL50	0.89 mg/l	aquatic invertebrates	21 d
naphthalene	91-20-3	LC50	7.76 mg/l	fish	24 h
naphthalene	91-20-3	EC50	2.96 mg/l	algae	4 h

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

12.7 Other adverse effects

Data are not available.

13 Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14 Transport information

14.1 UN number

UN RTDG	UN 1268
IMDG-Code	UN 1268
ICAO-TI	UN 1268

14.2 UN proper shipping name

UN RTDG	PETROLEUM DISTILLATES, N.O.S.
IMDG-Code	PETROLEUM DISTILLATES, N.O.S.
ICAO-TI	Petroleum distillates, n.o.s.
14.2.6 Technical name (hazardous ingredients)	stoddard solvent, 1,2,4-trimethylbenzene

14.3 Transport hazard class(es)

UN RTDG	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

UN RTDG	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment): stoddard solvent

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport information - National regulations - Additional information (UN RTDG)

UN number	1268
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	3, fish and tree

Special provisions (SP)	223 (UN RTDG)
Excepted quantities (EQ)	E1 (UN RTDG)
Limited quantities (LQ)	5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG)

Marine pollutant	yes (hazardous to the aquatic environment)
Danger label(s)	3, fish and tree

Special provisions (SP)	223, 955
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-E, S-E
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR)

Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	3

Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	10 L

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)	all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings			
Name of substance	**CAS No**	**Remarks**	**Effective date**
1,2,4-trimethylbenzene	95-63-6		1987-01-01
naphthalene	91-20-3		1987-01-01

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
naphthalene	91-20-3		1 2 3 4	100 (45,4)

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
2 "2" indicates that the source is section 307(a) of the Clean Water Act
3 "3" indicates that the source is section 112 of the Clean Air Act
4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
stoddard solvent	8002-05-9		ATSDR Neurotoxicants Canada PBiTs EC Annex VI CMRs - Cat. 1B
stoddard solvent	8052-41-3		ATSDR Neurotoxicants EC Annex VI CMRs - Cat. 1B
Distillates (petroleum), hydro-treated light	8002-05-9		ATSDR Neurotoxicants Canada PBiTs EC Annex VI CMRs - Cat. 1B
1,2,4-trimethylbenzene	95-63-6	non-functional constituent	CA NLs IRIS Neurotoxicants OEHHA RELs
nonane	111-84-2	solvents	
xylenes	1330-20-7	solvents	ATSDR Neurotoxicants CA MCLs CA TACs IRIS Neurotoxicants OEHHA RELs
ethylbenzene	100-41-4	non-functional	ATSDR Neurotoxicants

Name of substance	CAS No	Functionality	Authoritative Lists
		constituent	CA MCLs CA TACs CWA 303(c) IARC Carcinogens - 2B OEHHA RELs Prop 65
naphthalene	91-20-3	solvents	ATSDR Neurotoxicants CA NLs CA TACs CWA 303(c) CWA 303(d) IARC Carcinogens - 2B IRIS Neurotoxicants NTP 13th RoC - reasonable OEHHA RELs Prop 65 U.S. EPA NWMP PBTs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
1,2,4-trimethylbenzene	95-63-6				1.0 %
naphthalene	91-20-3				0.1 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
1,2,4-trimethylbenzene	25551-13-7	A	
nonane	111-84-2	A	
stoddard solvent	8002-05-9	A, O, R, T, *	
stoddard solvent	8052-41-3	A, N, O	
Distillates (petroleum), hydro-treated light	8002-05-9	A, O, R, T, *	

Legend

*	Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
A	American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
N	National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
O	Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
R	International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA
T	National Toxicology Program (NTP) "Fifth Annual Report on Carcinogens," 1989 (NTP 89-239). Order information: (919) 541-3992

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
1,2,4-trimethylbenzene	95-63-6		F2
naphthalene	91-20-3		CA F2
nonane	111-84-2		F3
stoddard solvent	8002-05-9		F3
stoddard solvent	8052-41-3		F2
Distillates (petroleum), hydro-treated light	8002-05-9		F3

Legend

CA	Carcinogenic
F2	Flammable - Second Degree
F3	Flammable - Third Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
PSEUDOCUMENE	95-63-6	E
NAPHTHALENE	91-20-3	E
NONANE	111-84-2	
PETROLEUM	8002-05-9	
STODDARD SOLVENT	8052-41-3	
PETROLEUM	8002-05-9	

Legend

E	Environmental hazard

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
1,2,4-trimethylbenzene	25551-13-7	T
naphthalene	91-20-3	T, F
nonane	111-84-2	T
stoddard solvent	8002-05-9	F
stoddard solvent	8052-41-3	T
Distillates (petroleum), hydro-treated light	8002-05-9	F

Legend

F	Flammability (NFPA®)
T	Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals				
Name acc. to inventory	**CAS No**	**Conc.**	**Remarks**	**Type of the toxicity**
ethylbenzene	100-41-4	0.5 wt%		cancer
naphthalene	91-20-3	0.5 wt%		cancer

VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 100 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 100 %

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	2	temporary or minor injury may occur
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

Chronic: chronic hazard
Flammability: flammability hazards
Health: health hazard
Personal protection: personal protective equipment (PPE) for normal use
Physical hazard: reactivity

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	2	material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

AIIC	Australian Inventory of Industrial Chemicals
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

Additional information

The contained substances are listed in the following national inventories:
AICiS (Australia)
DSL/NDSL (Canada)
IECSC (China)
EINECS/ELINCS/NLP (Europe)
REACH (Europe)
KECL (Republic of Korea)
INSQ (Mexico)
NZIoC (New Zealand)
PICCS (Philippines)
TCSI (Taiwan)
TSCA (United States)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other information

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.1	UN RTDG: UN 1992	UN RTDG: UN 1268	yes
14.1	IMDG-Code: UN 1992	IMDG-Code: UN 1268	yes
14.1	ICAO-TI: UN 1992	ICAO-TI: UN 1268	yes
14.2	UN RTDG: FLAMMABLE LIQUID, TOXIC, N.O.S.	UN RTDG: PETROLEUM DISTILLATES, N.O.S.	yes
14.2	IMDG-Code: FLAMMABLE LIQUID, TOXIC, N.O.S.	IMDG-Code: PETROLEUM DISTILLATES, N.O.S.	yes
14.2	ICAO-TI: Flammable liquid, toxic, n.o.s.	ICAO-TI: Petroleum distillates, n.o.s.	yes
14.3	UN RTDG: 3 (6.1)	UN RTDG: 3	yes
14.3	IMDG-Code: 3 (6.1)	IMDG-Code: 3	yes
14.3	ICAO-TI: 3 (6.1)	ICAO-TI: 3	yes
14.7	UN number: 1992	UN number: 1268	yes
14.7	Subsidiary risk(s): 6.1		yes
14.7	Danger label(s): 3+6.1, fish and tree	Danger label(s): 3, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 223, 274 (UN RTDG)	Special provisions (SP): 223 (UN RTDG)	yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment) (stoddard solvent)	Marine pollutant: yes (hazardous to the aquatic environment)	yes
14.7	Danger label(s): 3+6.1, fish and tree	Danger label(s): 3, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 223, 274	Special provisions (SP): 223, 955	yes
14.7	EmS: F-E, S-D	EmS: F-E, S-E	yes
14.7	Danger label(s): 3+6.1	Danger label(s): 3	yes
14.7		Danger label(s):	yes

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
		change in the listing (table)	
14.7	Limited quantities (LQ): 2 L	Limited quantities (LQ): 10 L	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
"BC Regulation"	OHS Regulation: Section 5.48 (British Columbia)
ACGIH®	American Conference of Governmental Industrial Hygienists
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal ARB	California Air Resources Board
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
EPA	Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
Flam. Sol.	Flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air

Abbr.	Descriptions of used abbreviations
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LHS	Lower hazard substance
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
MoL	Ministry of Labor: Current Occupational Exposure Limits for Ontario Workplaces Required under Regulation 833
NFPA®	National Fire Protection Association (United States)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OHS Code	Occupational Health and Safety Code: Occupational exposure limits for chemical substances (Alberta)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Regulation OHS	Regulation respecting occupational health and safety: Permissible exposure values for airborne contaminants (Quebec)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UN RTDG	UN Recommendations on the Transport of Dangerous Good
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Hazardous Products Regulations (HPR)
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)
UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.