



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

SECTION 1: Identification

1.1 Product identifier

Trade name **STP Complete Fuel System Cleaner, 12 oz**
Alternative number(s) 071153783584

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

Relevant identified uses General use
Uses advised against Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc.
25225 Detroit Rd.
Westlake OH 44145
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)
e-mail: Autocare.regulatory@energizer.com
Website: <http://data.energizer.com>

Energizer Trading Ltd.
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376
e-mail: ConsumerServiceEU@energizer.com

1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.1I	acute toxicity (inhal.)	3	Acute Tox. 3	H331
A.2	skin corrosion/irritation	1C	Skin Corr. 1C	H314
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
A.5	germ cell mutagenicity	1B	Muta. 1B	H340

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.6	carcinogenicity	1A	Carc. 1A	H350
A.7	reproductive toxicity	2	Repr. 2	H361d
A.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
A.10	aspiration hazard	1	Asp. Tox. 1	H304
B.6	flammable liquid	3	Flam. Liq. 3	H226

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. 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

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS05, GHS06,
GHS07, GHS08



- Hazard statements

H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H331 Toxic if inhaled.
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 (nervous system) through prolonged or repeated exposure.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
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.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

- Precautionary statements

- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dusts or mists.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated 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.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing 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 in accordance with national regulations.

- Hazardous ingredients for labelling

Distillates (petroleum), hydrodesulfurized middle,
Distillates (petroleum), hydrotreated light, Polyetheramine, naphthalene, toluene, benzene

2.3 Other hazards

Hazards not otherwise classified

- May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).
- Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Distillates (petroleum), hydrotreated light	CAS No 64742-47-8	10 - < 25	Acute Tox. 3 / H331 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Polyetheramine	CAS No 9046-10-0	10 - < 25	Skin Corr. 1C / H314 Eye Dam. 1 / H318	



































Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Straight-run Kerosene	CAS No 64741-44-2	10 - < 25	Acute Tox. 4 / H332 Flam. Liq. 3 / H226	 
Distillates (petroleum), hydrodesulfurized middle	CAS No 64742-80-9	10 - < 25	Acute Tox. 4 / H332 Carc. 1B / H350 Flam. Liq. 3 / H226	  
Distillates (petroleum), hydrodesulfurized light catalytic cracked	CAS No 68333-25-5	10 - < 25	Acute Tox. 4 / H332 Carc. 1B / H350 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Jet A-1	CAS No 8008-20-6	10 - < 25	Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	   
Kerosine (petroleum), hydrodesulfurized	CAS No 64742-81-0	5 - < 10	Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	   
Distillates (petroleum), light hydrocracked	CAS No 64741-77-1	1 - < 5	Acute Tox. 3 / H331 Carc. 2 / H351 Flam. Liq. 3 / H226	   
naphthalene	CAS No 91-20-3	< 1	Acute Tox. 4 / H302 Acute Tox. 1 / H330 Carc. 2 / H351 STOT SE 2 / H371 STOT RE 2 / H373	 
benzene	CAS No 71-43-2	< 1	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	  
ethylbenzene	CAS No 100-41-4	< 1	Acute Tox. 4 / H332 Carc. 2 / H351 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
toluene	CAS No 108-88-3	< 1	Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225	   



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

For full text of abbreviations: see SECTION 16.

SECTION 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. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

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

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

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)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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.

SECTION 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

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. 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.

SECTION 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.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

- 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.

SECTION 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/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	ethylbenzene	100-41-4	PEL (CA)	5	22	30	130				Ca/ OSHA PEL
US	ethylbenzene	100-41-4	REL	100 (10 h)	435 (10 h)	125	545				NIOSH REL
US	ethylbenzene	100-41-4	TLV®	20							AC-GIH® 2022



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	ethylbenzene	100-41-4	PEL	100	435						29 CFR 1910.1000
US	toluene	108-88-3	REL	100 (10 h)	375 (10 h)	150	560				NIOSH REL
US	toluene	108-88-3	TLV®	20							AC-GIH® 2022
US	toluene	108-88-3	PEL	200		500 (10 min)		300			29 CFR 1910.1000
US	toluene (toluol)	108-88-3	PEL (CA)	10	37	150	560	500			Cal/OSHA PEL
US	Kerosine - unspecified	64742-81-0	TLV®		200					vap, Hy-Carb, H	AC-GIH® 2022
US	benzene	71-43-2	PEL (CA)	1		5					Cal/OSHA PEL
US	benzene	71-43-2	PEL	1		5					29 CFR 1910.1000
US	benzene	71-43-2	REL	0.1 (10 h)		1				appx-A	NIOSH REL
US	benzene	71-43-2	TLV®	0.5		2.5				H	AC-GIH® 2022
US	benzene	71-43-2	PEL	10		50 (10 min)		25		us-pel-2a	29 CFR 1910.1000
US	Kerosine (petroleum)	8008-20-6	REL		100 (10 h)						NIOSH REL
US	Kerosine (petroleum) (jet fuels, JP 5)	8008-20-6	TLV®		200					vap, Hy-Carb, H	AC-GIH® 2022



Safety Data Sheet

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STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

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Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	naphthalene	91-20-3	PEL (CA)	0.1	0.5						Cal/OSHA PEL
US	naphthalene	91-20-3	REL	10 (10 h)	50 (10 h)	15	75				NIOSH REL
US	naphthalene	91-20-3	PEL	10	50						29 CFR 1910.1000
US	naphthalene	91-20-3	TLV®	10						H	ACGIH® 2022

Notation

appx-A	NIOSH Potential Occupational Carcinogen (Appendix A)
Ceiling-C	ceiling value is a limit value above which exposure should not occur
H	absorbed through the skin
HyCarb	calculated as hydrocarbons
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)
us-pel-z2a	This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.
vap	as vapors

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	ethylbenzene	mandelic acid, benzoyl-formic acid	crea	BEI®	0.15 g/g	ACGIH® 2022
US	toluene	toluene		BEI®	0.02 mg/l	ACGIH® 2022
US	toluene	toluene		BEI®	0.03 mg/l	ACGIH® 2022
US	toluene	o-cresol	hydr, crea	BEI®	0.3 mg/g	ACGIH® 2022
US	benzene	S-phenylmercapturic acid	crea	BEI®	25 µg/g	ACGIH® 2022
US	benzene	trans,trans-muconic acid	crea	BEI®	500 µg/g	ACGIH® 2022



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Notation

crea creatinine
hydr hydrolysis

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Polyetheramine	9046-10-0	DNEL	10.58 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Polyetheramine	9046-10-0	DNEL	2.5 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Straight-run Kerosene	64741-44-2	DNEL	16.4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Straight-run Kerosene	64741-44-2	DNEL	1,501 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Straight-run Kerosene	64741-44-2	DNEL	2.91 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	DNEL	27.3 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	DNEL	2,230 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	DNEL	2.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Distillates (petroleum), light hydrocracked	64741-77-1	DNEL	68.34 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), light hydrocracked	64741-77-1	DNEL	4,288 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
Distillates (petroleum), light hydrocracked	64741-77-1	DNEL	2.91 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
naphthalene	91-20-3	DNEL	25 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
naphthalene	91-20-3	DNEL	25 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
naphthalene	91-20-3	DNEL	3.57 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	192 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	384 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
toluene	108-88-3	DNEL	192 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
toluene	108-88-3	DNEL	384 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethylbenzene	100-41-4	DNEL	77 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
ethylbenzene	100-41-4	DNEL	293 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
ethylbenzene	100-41-4	DNEL	180 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Polyetheramine	9046-10-0	PNEC	0.015 mg/l	aquatic organisms	freshwater	short-term (single instance)
Polyetheramine	9046-10-0	PNEC	0.014 mg/l	aquatic organisms	marine water	short-term (single instance)
Polyetheramine	9046-10-0	PNEC	7.5 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Polyetheramine	9046-10-0	PNEC	0.132 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Polyetheramine	9046-10-0	PNEC	0.125 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Polyetheramine	9046-10-0	PNEC	0.018 mg/kg	terrestrial organisms	soil	short-term (single instance)
toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	freshwater	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
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Revision: 2022-07-12

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
toluene	108-88-3	PNEC	0.68 mg/l	aquatic organisms	marine water	short-term (single instance)
toluene	108-88-3	PNEC	13.61 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
toluene	108-88-3	PNEC	16.39 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
toluene	108-88-3	PNEC	2.89 mg/kg	terrestrial organisms	soil	short-term (single instance)
benzene	71-43-2	PNEC	1.9 mg/l	aquatic organisms	freshwater	short-term (single instance)
benzene	71-43-2	PNEC	1.9 mg/l	aquatic organisms	marine water	short-term (single instance)
benzene	71-43-2	PNEC	39 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
benzene	71-43-2	PNEC	33 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
benzene	71-43-2	PNEC	33 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
benzene	71-43-2	PNEC	4.8 mg/kg	terrestrial organisms	soil	short-term (single instance)
ethylbenzene	100-41-4	PNEC	0.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
ethylbenzene	100-41-4	PNEC	0.01 mg/l	aquatic organisms	marine water	short-term (single instance)
ethylbenzene	100-41-4	PNEC	9.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethylbenzene	100-41-4	PNEC	13.7 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
ethylbenzene	100-41-4	PNEC	1.37 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
ethylbenzene	100-41-4	PNEC	2.68 mg/kg	terrestrial organisms	soil	short-term (single instance)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	≥141 °C at 101.3 kPa



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Flash point	44 °C
Evaporation rate	Not determined
Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	≤3.7 kPa at 37.8 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	220 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

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

SECTION 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".



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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.

SECTION 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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Toxic if inhaled.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE)

Inhalation: gas 6,065 ppmV/4h
Inhalation: vapor 8.011 mg/l/4h

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Distillates (petroleum), hydrotreated light	64742-47-8	inhalation: vapor	>5.28 mg/l/4h
Straight-run Kerosene	64741-44-2	inhalation: vapor	11 mg/l/4h
Straight-run Kerosene	64741-44-2	inhalation: dust/mist	>2.53 mg/l/4h
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	inhalation: vapor	11 mg/l/4h
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	inhalation: dust/mist	4.6 mg/l/4h
Jet A-1	8008-20-6	inhalation: vapor	>5.28 mg/l/4h



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	inhalation: vapor	11 mg/l/4h
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	inhalation: dust/mist	4.65 mg/l/4h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	inhalation: vapor	>5.28 mg/l/4h
Distillates (petroleum), light hydrocracked	64741-77-1	inhalation: vapor	3.6 mg/l/4h
naphthalene	91-20-3	oral	710 mg/kg
naphthalene	91-20-3	inhalation: vapor	>0.4 mg/l/4h
naphthalene	91-20-3	inhalation: dust/mist	0.005 mg/l/4h
toluene	108-88-3	inhalation: gas	7.6 ppmV/4h
ethylbenzene	100-41-4	inhalation: vapor	11 mg/l/4h

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

Name of substance	CAS No	Classification	Number
benzene	71-43-2	1	
ethylbenzene	100-41-4	2B	
naphthalene	91-20-3	2B	
toluene	108-88-3	3	

Legend

1 Carcinogenic to humans
2B Possibly carcinogenic to humans



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Legend

3 Not classifiable as to carcinogenicity in humans

National Toxicology Program (United States): Report on Carcinogens

Name of substance	CAS No	Classification	Number
benzene	71-43-2	Known to be a human carcinogen	1st Report on Carcinogens
naphthalene	91-20-3	Reasonably anticipated to be a human carcinogen	11th Report on Carcinogens

29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)

Name of substance	CAS No	Type of registration
benzene	71-43-2	GI §1910.1028, SE §1915.1028, CI §1926.1128

Legend

CI §1926.1128 Construction Industry (29 CFR 1926.1128)
GI §1910.1028 General Industry (29 CFR 1910.1028)
SE §1915.1028 Shipyard Employment (29 CFR 1915.1028)

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	nervous system	if exposed

Aspiration hazard

May be fatal if swallowed and enters airways.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	rainbow trout (<i>Oncorhynchus mykiss</i>)	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	LC50	>1,000 mg/l	goldfish (<i>Carassius auratus</i>)	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	water flea (<i>Daphnia</i>)	48 h
Distillates (petroleum), hydrotreated light	64742-47-8	EC50	>1,000 mg/l	algae	72 h
Distillates (petroleum), hydrotreated light	64742-47-8	LL50	5 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	1.4 mg/l	aquatic invertebrates	48 h
Polyetheramine	9046-10-0	LC50	772.1 mg/l	fish	96 h
Polyetheramine	9046-10-0	EC50	>15 mg/l	fish	96 h
Polyetheramine	9046-10-0	ErC50	15 mg/l	algae	72 h
Straight-run Kerosene	64741-44-2	LL50	>100 mg/l	fish	24 h
Straight-run Kerosene	64741-44-2	EL50	>1,000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	LL50	>100 mg/l	fish	24 h
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	EL50	>1,000 mg/l	aquatic invertebrates	24 h
Jet A-1	8008-20-6	LL50	5 mg/l	fish	96 h
Jet A-1	8008-20-6	EL50	1.4 mg/l	aquatic invertebrates	48 h
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	LL50	>0.3 mg/l	fish	96 h



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	LC50	>0.21 mg/l	fish	96 h
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	EL50	0.32 mg/l	aquatic invertebrates	48 h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	LL50	5 mg/l	fish	96 h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	EL50	1.4 mg/l	aquatic invertebrates	48 h
Distillates (petroleum), light hydrocracked	64741-77-1	LL50	>100 mg/l	fish	24 h
Distillates (petroleum), light hydrocracked	64741-77-1	EL50	180 mg/l	aquatic invertebrates	24 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
toluene	108-88-3	LC50	5.5 mg/l	fish	96 h
toluene	108-88-3	EC50	84 mg/l	microorganisms	24 h
benzene	71-43-2	LC50	5.3 mg/l	fish	96 h
benzene	71-43-2	EC50	10 mg/l	aquatic invertebrates	24 h
benzene	71-43-2	ErC50	100 mg/l	algae	72 h
ethylbenzene	100-41-4	LC50	7 mg/l	fish	24 h
ethylbenzene	100-41-4	EC50	2.4 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrotreated light	64742-47-8	EL50	0.89 mg/l	aquatic invertebrates	21 d
Polyetheramine	9046-10-0	EC50	750 mg/l	microorganisms	3 h
Straight-run Kerosene	64741-44-2	EL50	>1,000 mg/l	microorganisms	40 h



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	EL50	>1,000 mg/l	microorganisms	40 h
Jet A-1	8008-20-6	EL50	0.89 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	EL50	0.22 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	EC50	0.17 mg/l	aquatic invertebrates	21 d
Kerosine (petroleum), hydrodesulfurized	64742-81-0	EL50	0.89 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), light hydrocracked	64741-77-1	EL50	>1,000 mg/l	microorganisms	40 h
naphthalene	91-20-3	EC50	2.96 mg/l	algae	4 h
toluene	108-88-3	LC50	3.78 mg/l	aquatic invertebrates	2 d
toluene	108-88-3	EC50	3.23 mg/l	aquatic invertebrates	7 d
ethylbenzene	100-41-4	LC50	3.6 mg/l	aquatic invertebrates	7 d

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

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

SECTION 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 DOT) 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.

SECTION 14: Transport information

14.1 UN number

DOT	UN 1268
IMDG-Code	UN 1268
ICAO-TI	UN 1268

14.2 UN proper shipping name

DOT	Petroleum distillates, n.o.s.
IMDG-Code	PETROLEUM DISTILLATES, N.O.S.
ICAO-TI	Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

DOT	3
IMDG-Code	3
ICAO-TI	3

14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	Jet A-1



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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 of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Particulars in the shipper's declaration	UN1268, Petroleum distillates, n.o.s., (contains: Straight-run Kerosene, Polyetheramine), 3, III, environmentally hazardous
Reportable quantity (RQ)	7,981 lbs (3,623 kg) (benzene) (xylene)
Danger label(s)	3, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	144, B1, IB3, T4, TP1, TP29
ERG No	128

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration	UN1268, PETROLEUM DISTILLATES, N.O.S., (contains: Straight-run Kerosene, Polyetheramine), 3, III, 44°C c.c., MARINE POLLUTANT
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



Safety Data Sheet


acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Particulars in the shipper's declaration	UN1268, Petroleum distillates, n.o.s., 3, III
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

SECTION 15: Regulatory information

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

National regulations (United States)

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
benzene	71-43-2		1987-01-01
ethylbenzene	100-41-4		1987-01-01
naphthalene	91-20-3		1987-01-01
toluene	108-88-3		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)
benzene	71-43-2	a	1 2 3 4	10 (4,54)



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
ethylbenzene	100-41-4		1 2 3	1000 (454)
naphthalene	91-20-3		1 2 3 4	100 (45,4)
toluene	108-88-3		1 2 3 4	1000 (454)

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)
- a Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that "benzene (including benzene from gasoline)" is a hazardous air pollutant and, thus, a CERCLA hazardous substance.

Clean Air Act

none of the ingredients are listed

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	Remarks	Type of the toxicity	
benzene	71-43-2		cancer	
benzene	71-43-2		developmental, male	
ethylbenzene	100-41-4		cancer	
naphthalene	91-20-3		cancer	
toluene	108-88-3		developmental	

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

Name of substance	CAS No	Listed in	Special conditions	Excluded transactions	DEA - code	Concentration limit
toluene	108-88-3	List II chemicals	SC-6594	excl-trans-12	6594	35% by Weight or Volume



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Legend

- excl-trans-12 Excluded transactions: Domestic and import transactions in chemical mixtures that contain acetone, ethyl ether, 2-butanone, and/or toluene, unless regulated because of being formulated with other List I or List II chemical(s) above the concentration limit.
- List II The term "list II chemical" means a chemical (other than a list I chemical) specified by regulation of the Attorney General as a chemical that is used in manufacturing a controlled substance in violation of this subchapter.
- chemicals
- SC-6594 Exports only; Limit applies to toluene or any combination of acetone, ethyl ether, 2-butanone, methyl isobutyl ketone, and toluene if present in the mixture by summing the concentrations for each chemical.

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	3	major injury likely unless prompt action is taken and medical treatment is given
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	-	

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	3	material that, under emergency conditions, can cause serious or permanent injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CA	NDSL	not all ingredients are listed



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

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

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
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NDSL	Non-domestic Substances List (NDSL)
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

15.2 Chemical Safety Assessment

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

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1		Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200); change in the listing (table)	yes



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.1	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.	The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. 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.	yes
2.2		- Pictograms: change in the listing (table)	yes
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2	- Hazardous ingredients for labelling: Distillates (petroleum), hydrodesulfurized middle, Distillates (petroleum), hydrotreated light, naphthalene, toluene, benzene	- Hazardous ingredients for labelling: Distillates (petroleum), hydrodesulfurized middle, Distillates (petroleum), hydrotreated light, Polyetheramine, naphthalene, toluene, benzene	yes
3.2		Description of the mixture: change in the listing (table)	yes
4.1	Following inhalation: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.	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.	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Biological limit values: change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table)	yes
11.1	Skin corrosion/irritation: Shall not be classified as corrosive/irritant to skin.	Skin corrosion/irritation: Causes severe skin burns and eye damage.	yes
11.1	Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant.	Serious eye damage/eye irritation: Causes serious eye damage.	yes



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
12.1		Aquatic toxicity (chronic) of components of the mixture: change in the listing (table)	yes
14.5	Environmentally hazardous substance (aquatic environment): Kerosene	Environmentally hazardous substance (aquatic environment): Jet A-1	yes
14.7	Particulars in the shipper's declaration: UN1268, Petroleum distillates, n.o.s., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle), 3, III, environmentally hazardous	Particulars in the shipper's declaration: UN1268, Petroleum distillates, n.o.s., (contains: Straight-run Kerosene, Polyetheramine), 3, III, environmentally hazardous	yes
14.7	Particulars in the shipper's declaration: UN1268, PETROLEUM DISTILLATES, N.O.S., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle), 3, III, 44°C c.c., MARINE POLLUTANT	Particulars in the shipper's declaration: UN1268, PETROLEUM DISTILLATES, N.O.S., (contains: Straight-run Kerosene, Polyetheramine), 3, III, 44°C c.c., MARINE POLLUTANT	yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment) (Kerosene)	Marine pollutant: yes (hazardous to the aquatic environment)	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed		yes
15.1		List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): change in the listing (table)	yes
15.1	Right to Know Hazardous Substance List		yes
15.1	Toxic or Hazardous Substance List (MA-TURA)		yes
15.1		Toxic or Hazardous Substance List (MA-TURA): change in the listing (table)	yes
15.1	Hazardous Substances List (MN-ERTK)		yes
15.1		Hazardous Substances List (MN-ERTK): change in the listing (table)	yes
15.1	Hazardous Substance List (NJ-RTK)		yes
15.1		Hazardous Substance List (NJ-RTK): change in the listing (table)	yes
15.1	Hazardous Substance List (Chapter 323) (PA-RTK)		yes
15.1		Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table)	yes



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
15.1	Hazardous Substance List (RI-RTK)		yes
15.1		Hazardous Substance List (RI-RTK): change in the listing (table)	yes
15.1		NPCA-HMIS® III: change in the listing (table)	yes
15.1		NFPA® 704: change in the listing (table)	yes
15.1		National inventories: change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR U.S. Department of Transportation
ACGIH® 2022	From ACGIH®, 2022 TLVs® and BEIs® Book. Copyright 2022. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DEA	Drug Enforcement Administration
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
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
EINECS	European Inventory of Existing Commercial Chemical Substances



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Abbr.	Descriptions of used abbreviations
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
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC	International Agency for Research on Cancer
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
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
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
Muta.	Germ cell mutagenicity
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NLP	No-Longer Polymer
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Abbr.	Descriptions of used abbreviations
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
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
TLV®	Threshold Limit Values
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Complete Fuel System Cleaner, 12 oz

Version number: 9.0
Replaces version of: 2021-07-08 (8)

Revision: 2022-07-12

Code	Text
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H371	May cause damage to organs.
H372	Causes damage to organs (nervous system) through prolonged or repeated exposure.
H373	May cause damage to organs (nervous system) 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.