Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

STP Fuel Injector & Carburetor Treatment - Bottle

Version number: 8.1
Replaces version of: 2024-06-05 (7)

Revision: 2024-09-12

1 Identification

1.1 Product identifier

Trade name: **STP Fuel Injector & Carburetor Treatment - Bottle**

Alternative number(s): 071153785939, 067788171162, 067788183615, 067489301349

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

Relevant identified uses: General use

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: https://data.energizer.com

1.4 Emergency telephone number

Emergency information service: FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585 This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

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
3.1I	acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitization	1	Skin Sens. 1	H317
3.5	germ cell mutagenicity	1B	Muta. 1B	H340
3.6	carcinogenicity	1A	Carc. 1A	H350

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.7	reproductive toxicity	2	Repr. 2	H361d
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
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

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labeling

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08 

- Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.

- Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves.
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

- Precautionary statements

	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.
P312	Call a POISON CENTER/doctor if you feel unwell.
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: Distillates (petroleum), hydrodesulfurized middle, Maleic anhydride, Naphthalene, Jet A-1, toluene, Benzene

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

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Straight-run Kerosene	CAS No 64741-44-2	10 – < 30	Flam. Liq. 3 / H226 Acute Tox. 4 / H332	
Distillates (petroleum), hydrodesulfurized middle	CAS No 64742-80-9	10 – < 30	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Carc. 1B / H350	
Distillates (petroleum), hydrodesulfurized light catalytic cracked	CAS No 68333-25-5	10 – < 30	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Carc. 1B / H350 Asp. Tox. 1 / H304	
Jet A-1	CAS No 8008-20-6	10 – < 30	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 STOT SE 3 / H336	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
			Asp. Tox. 1 / H304	
Kerosine (petroleum), hydrodesulfurized	CAS No 64742-81-0	10 – < 30	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304	
Distillates (petroleum), light hydrocracked	CAS No 64741-77-1	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 3 / H331 Carc. 2 / H351	
Solvent naphtha (petroleum), light arom.	CAS No 64742-95-6	1 – < 5	Flam. Liq. 1 / H224 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304	
Proprietary alcohol	CAS No trade secret	1 – < 5	Flam. Liq. 3 / H226 Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT SE 3 / H336	
2-Methylbutan-1-ol	CAS No 137-32-6	1 – < 5	Flam. Liq. 3 / H226	
1-pentanol	CAS No 71-41-0	1 – < 5	Flam. Liq. 3 / H226 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 STOT SE 3 / H335	
Naphthalene	CAS No 91-20-3	0.1 – < 1	Acute Tox. 4 / H302 Acute Tox. 1 / H330 Carc. 2 / H351 STOT SE 2 / H371 STOT RE 2 / H373	
2-ethylhexan-1-ol	CAS No 104-76-7	0.1 – < 1	Flam. Liq. 4 / H227 Acute Tox. 2 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335	
Benzene	CAS No 71-43-2	0.1 – < 1	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304	
toluene	CAS No 108-88-3	0.1 – < 1	Flam. Liq. 2 / H225 Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304	
Maleic anhydride	CAS No 108-31-6	< 0.1	Acute Tox. 4 / H302 Skin Corr. 1B / H314	

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
			Eye Dam. 1 / H318 Resp. Sens. 1 / H334 Skin Sens. 1A / H317 STOT RE 1 / H372	

Remarks

For full text of abbreviations: see SECTION 16

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

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)

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

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.

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	maleic anhydride	108-31-6	OEL (AB)	0.1	0.4						OHS Code
CA	maleic anhydride	108-31-6	OEL (BC)	0.1							"BC Regulation"
CA	maleic anhydride	108-31-6	OEL (ONMoL)		0.01					iv	MoL
CA	maleic anhydride	108-31-6	PEV/VEA		0.01					iv	Regulation OHS
CA	toluene	108-88-3	OEL (BC)	20							"BC Regulation"
CA	toluene	108-88-3	OEL	20							MoL

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
			(ON-MoL)								
CA	toluene	108-88-3	PEV/VEA	20							Regulation OHS
CA	toluene (toluol)	108-88-3	OEL (AB)	50	188					H	OHS Code
CA	Kerosene/Jet fuels	64742-81-0	OEL (AB)		200					Hy-Carb, vap, H	OHS Code
CA	Kerosene/Jet fuels	64742-81-0	OEL (BC)		200					Hy-Carb, vap, H	"BC Regulation"
CA	Kerosene / Jet fuels	64742-81-0	OEL (ON-MoL)		200					Hy-Carb, vap, H	MoL
CA	Kerosine (petroleum), hydrodesulfurized	64742-81-0	PEV/VEA		200					H	Regulation OHS
CA	benzene	71-43-2	OEL (AB)	0.5	1.6	2.5	8			H	OHS Code
CA	benzene	71-43-2	OEL (BC)	0.5		2.5				H	"BC Regulation"
CA	benzene	71-43-2	OEL (ON)	0.5		2.5				H	Regulation 833
CA	benzene	71-43-2	OEL (ON-MoL)	0.5		2.5				H	MoL
CA	benzene	71-43-2	PEV/VEA	0.5		2.5				H	Regulation OHS
CA	isobutanol	78-83-1	OEL (BC)	50							"BC Regulation"
CA	isobutanol	78-83-1	OEL (ON-MoL)	50							MoL

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	isobutyl alcohol	78-83-1	OEL (AB)	50	152						OHS Code
CA	isobutyl alcohol	78-83-1	PEV/VEA	50	152						Regulation OHS
CA	Kerosene/Jet fuels	8008-20-6	OEL (AB)		200					HyCarb, vap, H	OHS Code
CA	Kerosene/Jet fuels	8008-20-6	OEL (BC)		200					HyCarb, vap, H	"BC Regulation"
CA	Kerosene / Jet fuels	8008-20-6	OEL (ONMoL)		200					HyCarb, vap, H	MoL
CA	Kerosine (petroleum)	8008-20-6	PEV/VEA		200					H	Regulation OHS
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 (ONMoL)	10						H	MoL
CA	naphthalene	91-20-3	PEV/VEA	10						H	Regulation OHS

Notation

Ceiling-C	ceiling value is a limit value above which exposure should not occur
H	absorbed through the skin
HyCarb	calculated as hydrocarbons
iv	inhalable fraction and vapor
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
vap	as vapors

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Straight-run Kerosene	64741-44-2	DNEL	16.4 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Straight-run Kerosene	64741-44-2	DNEL	1,501 mg/m³	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/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	DNEL	2,230 mg/m³	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/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Distillates (petroleum), light hydrocracked	64741-77-1	DNEL	4,288 mg/m³	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
Proprietary alcohol	trade secret	DNEL	310 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-Methylbutan-1-ol	137-32-6	DNEL	73.16 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
2-Methylbutan-1-ol	137-32-6	DNEL	292 mg/m³	human, inhalatory	worker (industry)	acute - local 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
2-ethylhexan-1-ol	104-76-7	DNEL	12.8 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2-ethylhexan-1-ol	104-76-7	DNEL	53.2 mg/m³	human, inhalat-	worker (industry)	chronic - local ef-

Relevant DNELs of components

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
				ory		fects
2-ethylhexan-1-ol	104-76-7	DNEL	53.2 mg/m³	human, inhalatory	worker (industry)	acute - local effects
2-ethylhexan-1-ol	104-76-7	DNEL	23 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	192 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
toluene	108-88-3	DNEL	384 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
toluene	108-88-3	DNEL	192 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
toluene	108-88-3	DNEL	384 mg/m³	human, inhalatory	worker (industry)	acute - local effects
toluene	108-88-3	DNEL	384 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Maleic anhydride	108-31-6	DNEL	0.081 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Maleic anhydride	108-31-6	DNEL	0.2 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Maleic anhydride	108-31-6	DNEL	0.081 mg/m³	human, inhalatory	worker (industry)	chronic - local effects
Maleic anhydride	108-31-6	DNEL	0.2 mg/m³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Proprietary alcohol	trade secret	PNEC	0.4 $^{mg}/_{l}$	aquatic organisms	freshwater	short-term (single instance)
Proprietary alcohol	trade secret	PNEC	0.04 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Proprietary alcohol	trade secret	PNEC	10 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Proprietary alcohol	trade secret	PNEC	1.56 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Proprietary alcohol	trade secret	PNEC	0.156 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Proprietary alcohol	trade secret	PNEC	0.076 $^{mg}/_{kg}$	terrestrial organ-	soil	short-term (single

Relevant PNECs of components

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
				isms		instance)
2-ethylhexan-1-ol	104-76-7	PNEC	0.017 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-ethylhexan-1-ol	104-76-7	PNEC	0.002 mg/l	aquatic organisms	marine water	short-term (single instance)
2-ethylhexan-1-ol	104-76-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-ethylhexan-1-ol	104-76-7	PNEC	0.284 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-ethylhexan-1-ol	104-76-7	PNEC	0.028 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-ethylhexan-1-ol	104-76-7	PNEC	0.047 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)
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	80 µg/l	aquatic organisms	freshwater	short-term (single instance)
Benzene	71-43-2	PNEC	8 µg/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	1.36 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Benzene	71-43-2	PNEC	0.136 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Benzene	71-43-2	PNEC	0.225 mg/kg	terrestrial organisms	soil	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0.038 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
Maleic anhydride	108-31-6	PNEC	0.004 $^{mg}/_{l}$	aquatic organisms	marine water	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	44.6 $^{mg}/_{l}$	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0.296 $^{mg}/_{kg}$	aquatic organisms	freshwater sediment	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0.03 $^{mg}/_{kg}$	aquatic organisms	marine sediment	short-term (single instance)
Maleic anhydride	108-31-6	PNEC	0.037 $^{mg}/_{kg}$	terrestrial organisms	soil	short-term (single instance)

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	not determined
Odor	characteristic

Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	37.7 °C at 101.3 kPa
Flammability	flammable liquid in accordance with GHS criteria
Lower and upper explosion limit	1.4 vol% - 7.6 vol%
Flash point	38 °C
Auto-ignition temperature	220 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	not determined
Kinematic viscosity	not determined
Solubility(ies)	not determined

Partition coefficient

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

Vapor pressure	≤240 kPa at 37.8 °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 if inhaled.

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

- Acute toxicity estimate (ATE)

Inhalation: gas	4,307 $^{ppmV}/_{4h}$
Inhalation: vapour	>12.98 $^{mg}/_{l}/4h$

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Straight-run Kerosene	64741-44-2	dermal	>2,000 $^{mg}/_{kg}$
Straight-run Kerosene	64741-44-2	inhalation: vapour	11 $^{mg}/_{l}/4h$

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Straight-run Kerosene	64741-44-2	inhalation: dust/mist	>2.53 $^{mg}/_{l}$/4h
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	dermal	>2,000 $^{mg}/_{kg}$
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	inhalation: vapour	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	dermal	>2,000 $^{mg}/_{kg}$
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	oral	4,660 $^{mg}/_{kg}$
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	dermal	>2,000 $^{mg}/_{kg}$
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	inhalation: vapour	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	dermal	>2,000 $^{mg}/_{kg}$
Distillates (petroleum), light hydrocracked	64741-77-1	inhalation: vapour	3.6 $^{mg}/_{l}$/4h
Solvent naphtha (petroleum), light arom.	64742-95-6	dermal	>2,000 $^{mg}/_{kg}$
Proprietary alcohol	trade secret	oral	3,350 $^{mg}/_{kg}$
Proprietary alcohol	trade secret	dermal	2,460 $^{mg}/_{kg}$
1-pentanol	71-41-0	inhalation: vapour	11 $^{mg}/_{l}$/4h
Naphthalene	91-20-3	oral	710 $^{mg}/_{kg}$
Naphthalene	91-20-3	dermal	>2,500 $^{mg}/_{kg}$
Naphthalene	91-20-3	inhalation: vapour	>0.4 $^{mg}/_{l}$/4h
Naphthalene	91-20-3	inhalation: dust/mist	0.005 $^{mg}/_{l}$/4h
2-ethylhexan-1-ol	104-76-7	oral	2,047 $^{mg}/_{kg}$
2-ethylhexan-1-ol	104-76-7	inhalation: vapour	>0.89 $^{mg}/_{l}$/4h
toluene	108-88-3	inhalation: gas	7.6 $^{ppmV}/_{4h}$
toluene	108-88-3	inhalation: vapour	28.1 $^{mg}/_{l}$/4h
Benzene	71-43-2	oral	>2,000 $^{mg}/_{kg}$
Benzene	71-43-2	inhalation: vapour	43.77 $^{mg}/_{l}$/4h
Maleic anhydride	108-31-6	oral	1,090 $^{mg}/_{kg}$
Maleic anhydride	108-31-6	dermal	2,620 $^{mg}/_{kg}$

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye irritation.

Respiratory or skin sensitization
May cause an allergic skin reaction.

Germ cell mutagenicity
May cause genetic defects.

Carcinogenicity
May cause cancer.

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

Aspiration hazard
May be fatal if swallowed and enters airways.

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
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
Jet A-1	8008-20-6	LOEL	1 $^{mg}/_{l}$	algae	72 h
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	LL50	>0.3 $^{mg}/_{l}$	fish	96 h
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	LC50	>0.21 $^{mg}/_{l}$	fish	96 h

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	EL50	0.32 mg/l	aquatic invertebrates	48 h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	LL50	2 – 5 mg/l	fish	96 h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	EL50	1.4 mg/l	aquatic invertebrates	48 h
Kerosine (petroleum), hydrodesulfurized	64742-81-0	LOEL	1 mg/l	algae	72 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
Solvent naphtha (petroleum), light arom.	64742-95-6	LL50	8.2 mg/l	fish	96 h
Solvent naphtha (petroleum), light arom.	64742-95-6	EL50	4.5 mg/l	aquatic invertebrates	48 h
Proprietary alcohol	trade secret	LC50	1,430 mg/l	fish	96 h
Proprietary alcohol	trade secret	EC50	1,100 mg/l	aquatic invertebrates	48 h
Proprietary alcohol	trade secret	ErC50	1,799 mg/l	algae	72 h
Proprietary alcohol	trade secret	NOEC	<53 mg/l	algae	72 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
2-ethylhexan-1-ol	104-76-7	LC50	17.1 mg/l	fish	96 h
2-ethylhexan-1-ol	104-76-7	EC50	39 mg/l	aquatic invertebrates	48 h
2-ethylhexan-1-ol	104-76-7	ErC50	16.6 mg/l	algae	72 h
2-ethylhexan-1-ol	104-76-7	NOEC	14 mg/l	fish	96 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
Maleic anhydride	108-31-6	LC50	75 mg/l	fish	96 h
Maleic anhydride	108-31-6	EC50	42.81 mg/l	aquatic invertebrates	48 h
Maleic anhydride	108-31-6	ErC50	74.35 mg/l	algae	72 h

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Maleic anhydride	108-31-6	NOEC	17.5 mg/l	aquatic invertebrates	48 h
Maleic anhydride	108-31-6	LOEC	30.63 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Straight-run Kerosene	64741-44-2	EL50	>1,000 mg/l	microorganisms	40 h
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
Jet A-1	8008-20-6	LOEL	1.2 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
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	NOEC	0.038 mg/l	aquatic invertebrates	21 d
Kerosine (petroleum), hydrodesulfurized	64742-81-0	EL50	0.89 mg/l	aquatic invertebrates	21 d
Kerosine (petroleum), hydrodesulfurized	64742-81-0	LOEL	1.2 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), light hydrocracked	64741-77-1	EL50	>1,000 mg/l	microorganisms	40 h
Solvent naphtha (petroleum), light arom.	64742-95-6	EL50	10 mg/l	fish	21 d
Solvent naphtha (petroleum), light arom.	64742-95-6	EC50	15.41 mg/l	microorganisms	40 h
Proprietary alcohol	trade secret	NOEC	20 mg/l	aquatic invertebrates	21 d
Naphthalene	91-20-3	EC50	2.96 mg/l	algae	4 h
Naphthalene	91-20-3	NOEC	0.37 mg/l	fish	40 d
Naphthalene	91-20-3	LOEC	0.38 mg/l	fish	40 d
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

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
toluene	108-88-3	LOEC	2.77 $^{mg}/_{l}$	fish	40 d
toluene	108-88-3	NOEC	1.39 $^{mg}/_{l}$	fish	40 d
Benzene	71-43-2	LOEC	1.6 $^{mg}/_{l}$	fish	32 d
Benzene	71-43-2	NOEC	0.8 $^{mg}/_{l}$	fish	32 d
Maleic anhydride	108-31-6	EC50	77 $^{mg}/_{l}$	aquatic invertebrates	21 d
Maleic anhydride	108-31-6	NOEC	10 $^{mg}/_{l}$	aquatic invertebrates	21 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

According to the results of its assessment, this substance is not a PBT or a vPvB. 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 1993
IMDG-Code	UN 1993
ICAO-TI	UN 1993

14.2 UN proper shipping name

UN RTDG	FLAMMABLE LIQUID, N.O.S.
IMDG-Code	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle

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): Jet A-1

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

DOT

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

UN number	1993
Class	3
Environmental hazards	yes (hazardous to the aquatic environment)

Packing group	III
Danger label(s)	3, fish and tree

Special provisions (SP)	223, 274 (UN RTDG)
Excepted quantities (EQ)	E1 (UN RTDG)
Limited quantities (LQ)	5 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Particulars in the shipper's declaration	UN1993, FLAMMABLE LIQUID, N.O.S., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle, Jet A-1), 3, III, 38°C c.c., MARINE POLLUTANT
Marine pollutant	yes (hazardous to the aquatic environment) (Jet A-1)
Danger label(s)	3, fish and tree

Special provisions (SP)	223, 274, 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) - Additional information

Particulars in the shipper's declaration	UN1993, Flammable liquid, n.o.s., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle), 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

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) not all ingredients are listed (ACTIVE)

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
Maleic anhydride	108-31-6		1987-01-01
Benzene	71-43-2		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)
Maleic anhydride	108-31-6		1 3 4	5000 (2270)
Benzene	71-43-2	a	1 2 3 4	10 (4,54)
Proprietary alcohol	78-83-1		4	5000 (2270)
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

Legend

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

Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
Straight-run Kerosene	64741-44-2	solvents	
Distillates (petroleum), hydrodesulfurized middle	64742-80-9	solvents	EC Annex VI CMRs - Cat. 1B
Distillates (petroleum), hydrodesulfurized light catalytic cracked	68333-25-5	solvents	EC Annex VI CMRs - Cat. 1B
Jet A-1	8008-20-6	solvents	ATSDR Neurotoxicants
Jet A-1		solvents	ATSDR Neurotoxicants
Distillates (petroleum), light hydrocracked	64741-77-1	solvents	
Solvent naphtha (petroleum), light arom.	64742-95-6	solvents	EC Annex VI CMRs - Cat. 1B
Proprietary alcohol	trade secret	solvents	
1-pentanol	71-41-0	fragrance	
1,2,4 trimethlybenzene	95-63-6		CA NLs IRIS Neurotoxicants OEHHA RELs
Methylbenzene derivatives	1330-20-7	solvents	ATSDR Neurotoxicants CA MCLs CA TACs IRIS Neurotoxicants OEHHA RELs
Naphthalene	91-20-3	nonfunctional contaminant	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
1,3,5-trimethylbenzene	108-67-8		CA NLs IRIS Neurotoxicants OEHHA RELs

Name of substance	CAS No	Functionality	Authoritative Lists
Propylbenzene	103-65-1	fragrance	CA NLs
1,2,3-Trimethylbenzene	526-73-8	solvents	IRIS Neurotoxicants
Cumene	98-82-8	nonfunctional constituent	CA NLs CA TACs IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHHA RELs Prop 65
Benzene	71-43-2	reactive residual	ATSDR Neurotoxicants CA MCLs CA TACs CWA 303(c) EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B IARC Carcinogens - 1 IRIS Carcinogens - A NTP 13th RoC - known OEHHA RELs Prop 65
Benzene	71-43-2	reactive residual	Nonfunctional constituents
Ethylbenzene	100-41-4	fuel additive	ATSDR Neurotoxicants CA MCLs CA TACs CWA 303(c) IARC Carcinogens - 2B OEHHA RELs Prop 65
toluene	108-88-3	solvents	ATSDR Neurotoxicants CA MCLs CA TACs CWA 303(c) IRIS Neurotoxicants OEHHA RELs Prop 65
biphenyl	92-52-4		CA TACs
butanol	71-36-3	fragrance	
Butanedioic acid derivative	trade secret	pH Adjuster	
Maleic anhydride	108-31-6		CA TACs EC Annex VI Resp. Sens. - Cat. 1 OEHHA RELs

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Maleic anhydride	108-31-6				1.0 %

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Benzene	71-43-2				0.1 %
Proprietary alcohol	78-83-1		LHS		1.0 %
Naphthalene	91-20-3				0.1 %
toluene	108-88-3				1.0 %

- Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Benzene	71-43-2	A, N, O, R, T, *	
Proprietary alcohol	78-83-1	A, O	

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
Maleic anhydride	108-31-6		CO R1
Benzene	71-43-2		CA MU F3
Proprietary alcohol	78-83-1		F3
Jet A-1	8008-20-6		F2
Naphthalene	91-20-3		CA F2
toluene	108-88-3		TE

Name of substance	CAS No	Remarks	Classifications
			F3
1-pentanol	71-41-0		F3

Legend

CA	Carcinogenic
CO	Corrosive
F2	Flammable - Second Degree
F3	Flammable - Third Degree
MU	Mutagenic
R1	Reactive - First Degree
TE	Teratogenic

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

Name acc. to inventory	CAS No	Classification
2,5-FURANDIONE	108-31-6	E
1-BUTANOL, 2-METHYL-	137-32-6	
BENZENE	71-43-2	E, S
1-PROPANOL, 2-METHYL-	78-83-1	E
KEROSINE (PETROLEUM)	8008-20-6	
NAPHTHALENE	91-20-3	E
BENZENE, METHYL-	108-88-3	E
1-PENTANOL	71-41-0	

Legend

E	Environmental hazard
S	Special hazardous substance

- Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Maleic anhydride	108-31-6	T, F
Benzene	71-43-2	T, F, C
Proprietary alcohol	78-83-1	T
Jet A-1	8008-20-6	F
Naphthalene	91-20-3	T, F
toluene	108-88-3	T, F
toluene	108-88-3	T, F
toluene	108-88-3	T, F

Name of substance	CAS No	References
1-pentanol	71-41-0	F

Legend

C	Carcinogenicity (IARC)
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	Remarks	Type of the toxicity
cumene	98-82-8		cancer
benzene	71-43-2		cancer
benzene	71-43-2		developmental, male
di-n-butyl phthalate (DBP)	84-74-2		developmental, female, male
ethylbenzene	100-41-4		cancer
cumene	98-82-8		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

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 chemicals	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.
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	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	-	

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
CA	NDSL	not all ingredients are listed
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

Country	Inventory	Status
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	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	not all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)
VN	NCI	not 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
NCI	National Chemical 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.

16 Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relev-ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.2		- Pictograms: change in the listing (table)	yes

STP Fuel Injector & Carburetor Treatment - Bottle

Version number: 8.1
Replaces version of: 2024-06-05 (7)
Revision: 2024-09-12

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2		- Hazard statements: change in the listing (table)	yes
2.2		- Precautionary statements: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
11.1	Acute toxicity: Toxic if inhaled.GHS of the United Nations, annex 4: May be harmful in contact with skin.	Acute toxicity: Harmful if inhaled.GHS of the United Nations, annex 4: May be harmful in contact with skin.	yes
11.1		- Acute toxicity estimate (ATE): change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of components: change in the listing (table)	yes
12.1		Aquatic toxicity (acute) of components of the mixture: change in the listing (table)	yes
15.1	Toxic Substance Control Act (TSCA): all ingredients are listed (ACTIVE) or exempt from listing	Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE)	yes
15.1		Toxic or Hazardous Substance List (MA-TURA): change in the listing (table)	yes
15.1		NFPA® 704: change in the listing (table)	yes

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).

Disclaimer

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