



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## XDP POLAR D

Replaces version of: 2022-12-22 (GHS 1)

Revision: 2022-12-22

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name

**XDP POLAR D**

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

Relevant identified uses

For addition to diesel fuel

#### 1.3 Details of the supplier of the safety data sheet

Xtreme Diesel Performance  
1758 State Route 34  
North Wall Township NJ  
07727 United States  
1-888-735-3773

#### 1.4 Emergency telephone number Chemtrec 1-800-424-9300 (Within Continental US) Chemtrec 703-527-3887 (Outside US)

### 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.6	carcinogenicity	2	Carc. 2	H351
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373
B.6	flammable liquid	4	Flam. Liq. 4	H227

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

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

#### 2.2 Label elements

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

- Signal word warning

- Pictograms

GHS08



- Hazard statements

H227

Combustible liquid.

H351

Suspected of causing cancer.

H373

May cause damage to organs through prolonged or repeated exposure.



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### - Precautionary statements

- P201 Obtain special instructions before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/eye protection/face protection.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.
- 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 Naphthalene, Xylene, Cumene, Ethylbenzene

### 2.3 Other hazards

This material is combustible, but will not ignite readily.

## 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
Solvent naphtha, petroleum, heavy aromatic	CAS No 64742-94-5	50 - < 75	Flam. Liq. 3 / H226	
2-Ethylhexyl nitrate	CAS No 27247-96-7	5 - < 10	Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Flam. Liq. 4 / H227	
1, 2, 4-Trimethylbenzene	CAS No 95-63-6	1 - < 5	Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Naphthalene	CAS No 91-20-3	1 - < 5	Acute Tox. 4 / H302 Carc. 2 / H351	 
1, 3, 5-Trimethylbenzene	CAS No 108-67-8	1 - < 5	STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Xylene	CAS No 1330-20-7	1 - < 5	Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	  
Trade Secret	CAS No Trade Secret	1 - < 5	Flam. Liq. 4 / H227	



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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Distillates, petroleum, hydrotreated light	CAS No 64742-47-8	1 - < 5	Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
Cumene	CAS No 98-82-8	< 1	Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226	
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	

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. 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

Symptoms and effects are not known to date.

#### 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 (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet



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### 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

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 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.



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### - 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

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 <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	ethylbenzene	100-41-4	PEL (CA)	5	22	30	130				Cal/ 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							ACGIH® 2021
US	ethylbenzene	100-41-4	PEL	100	435						29 CFR 1910.10 00
US	1,3,5-trimethylbenzene	108-67-8	REL	25 (10 h)	125 (10 h)						NIOSH REL
US	mesitylene	108-67-8	PEL (CA)	25	125						Cal/ OSHA PEL
US	xylene, mixture of isomers	1330-20-7	TLV®	100		150					ACGIH® 2021



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Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
US	xylene, mixture of isomers	1330-20-7	PEL	100	435						29 CFR 1910.1000
US	xylene (dimethylbenzene)	1330-20-7	PEL (CA)	100	435	150	655	300			Cal/ OSHA PEL
US	(2-methoxymethyl-ethoxy)propanol	34590-94-8	TLV®	100		150					ACGIH® 2021
US	dipropylene glycol methyl ether	34590-94-8	PEL (CA)	100	600	150	900				Cal/ OSHA PEL
US	dipropylene glycol methyl ether	34590-94-8	REL	100 (10 h)	600 (10 h)	150	900				NIOSH REL
US	dipropylene glycol methyl ether	34590-94-8	PEL	100	600						29 CFR 1910.1000
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® 2021
US	1,2,4-trimethylbenzene	95-63-6	REL	25 (10 h)	125 (10 h)						NIOSH REL
US	C9-C15 aromatics	95-63-6	TLV®		100						ACGIH® 2021
US	cumene	98-82-8	REL	50 (10 h)	245 (10 h)						NIOSH REL
US	cumene	98-82-8	TLV®	5							ACGIH® 2021
US	cumene	98-82-8	PEL	50	245						29 CFR 1910.1000
US	cumene (isopropylbenzene)	98-82-8	PEL (CA)	50	245						Cal/ OSHA PEL

### Notation

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



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Biological limit values						
Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	ethylbenzene	mandelic acid, benzoylformic acid	crea	BEI®	0.15 g/g	ACGIH® 2021
US	xylene, mixture of isomers	methylhippuric acids	crea	BEI®	1.5 g/g	ACGIH® 2021

### Notation

crea creatinine

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
2-Ethylhexyl nitrate	27247-96-7	DNEL	0.35 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
2-Ethylhexyl nitrate	27247-96-7	DNEL	1 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-Ethylhexyl nitrate	27247-96-7	DNEL	44 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic - local effects
1, 2, 4-Trimethylbenzene	95-63-6	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
1, 2, 4-Trimethylbenzene	95-63-6	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
1, 2, 4-Trimethylbenzene	95-63-6	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
1, 2, 4-Trimethylbenzene	95-63-6	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
1, 2, 4-Trimethylbenzene	95-63-6	DNEL	16,171 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Xylene	1330-20-7	DNEL	221 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Xylene	1330-20-7	DNEL	442 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - systemic effects
Xylene	1330-20-7	DNEL	221 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Xylene	1330-20-7	DNEL	442 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Xylene	1330-20-7	DNEL	212 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Trade Secret	Trade Secret	DNEL	308 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Trade Secret	Trade Secret	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Cumene	98-82-8	DNEL	100 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Cumene	98-82-8	DNEL	250 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
Cumene	98-82-8	DNEL	15.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects



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Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Ethylbenzene	100-41-4	DNEL	77 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
Ethylbenzene	100-41-4	DNEL	293 mg/m <sup>3</sup>	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	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
2-Ethylhexyl nitrate	27247-96-7	PNEC	0.8 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-Ethylhexyl nitrate	27247-96-7	PNEC	0.08 µg/l	aquatic organisms	marine water	short-term (single instance)
2-Ethylhexyl nitrate	27247-96-7	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-Ethylhexyl nitrate	27247-96-7	PNEC	0.74 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-Ethylhexyl nitrate	27247-96-7	PNEC	0.74 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-Ethylhexyl nitrate	27247-96-7	PNEC	0.191 µg/kg	terrestrial organisms	soil	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	0.12 mg/l	aquatic organisms	freshwater	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	0.12 mg/l	aquatic organisms	marine water	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	2.41 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	13.56 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
1, 2, 4-Trimethylbenzene	95-63-6	PNEC	2.34 mg/kg	terrestrial organisms	soil	short-term (single instance)
Xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	freshwater	short-term (single instance)
Xylene	1330-20-7	PNEC	0.327 mg/l	aquatic organisms	marine water	short-term (single instance)
Xylene	1330-20-7	PNEC	6.58 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)





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Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Xylene	1330-20-7	PNEC	12.46 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Xylene	1330-20-7	PNEC	2.31 mg/kg	terrestrial organisms	soil	short-term (single instance)
Trade Secret	Trade Secret	PNEC	19 mg/l	aquatic organisms	freshwater	short-term (single instance)
Trade Secret	Trade Secret	PNEC	1.9 mg/l	aquatic organisms	marine water	short-term (single instance)
Trade Secret	Trade Secret	PNEC	4,168 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Trade Secret	Trade Secret	PNEC	70.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Trade Secret	Trade Secret	PNEC	7.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Trade Secret	Trade Secret	PNEC	2.74 mg/kg	terrestrial organisms	soil	short-term (single instance)
Cumene	98-82-8	PNEC	0.035 mg/l	aquatic organisms	freshwater	short-term (single instance)
Cumene	98-82-8	PNEC	0.004 mg/l	aquatic organisms	marine water	short-term (single instance)
Cumene	98-82-8	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Cumene	98-82-8	PNEC	3.22 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Cumene	98-82-8	PNEC	0.322 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Cumene	98-82-8	PNEC	0.624 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)

### 8.2 Exposure controls



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### 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	139.1 °C at 1,013 hPa
Flash point	70 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)



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### Explosive limits

- Lower explosion limit (LEL)	1.1 vol%
- Upper explosion limit (UEL)	14 vol%
Vapor pressure	≤3.7 kPa at 37.8 °C
Density	7.4 – 7.5 lb/gal at 20 °C
Vapor density	this information is not available
Solubility(ies)	not determined

### Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	207 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

### 9.2 Other information

Solvent content	99.77 %
Solid content	3.607 %
Temperature class (USA, acc. to NEC 500)	T3 (maximum permissible surface temperature on the equipment: 200°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".

### 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.



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### 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

Shall not be classified as acutely toxic.

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

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS No	Exposure route	ATE
2-Ethylhexyl nitrate	27247-96-7	oral	500 mg/kg
2-Ethylhexyl nitrate	27247-96-7	dermal	1,100 mg/kg
2-Ethylhexyl nitrate	27247-96-7	inhalation: vapor	11 mg/l/4h
1, 2, 4-Trimethylbenzene	95-63-6	inhalation: vapor	11 mg/l/4h
Naphthalene	91-20-3	oral	500 mg/kg
Xylene	1330-20-7	dermal	1,100 mg/kg
Xylene	1330-20-7	inhalation: vapor	11 mg/l/4h
Distillates, petroleum, hydrotreated light	64742-47-8	inhalation: vapor	>5.28 mg/l/4h
Ethylbenzene	100-41-4	inhalation: vapor	11 mg/l/4h

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

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

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.



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### Carcinogenicity

Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Number
Xylene	1330-20-7	3	
Cumene	98-82-8	2B	
Ethylbenzene	100-41-4	2B	
Naphthalene	91-20-3	2B	

#### Legend

2B Possibly carcinogenic to humans  
3 Not classifiable as to carcinogenicity in humans

National Toxicology Program (United States): Report on Carcinogens			
Name of substance	CAS No	Classification	Number
Cumene	98-82-8	Reasonably anticipated to be a human carcinogen	13th Report on Carcinogens
Naphthalene	91-20-3	Reasonably anticipated to be a human carcinogen	11th Report on Carcinogens

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

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

### Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

### 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.



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### 12.6 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

## 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 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

### 14.2 UN proper shipping name

DOT	Environmentally hazardous substance, liquid, n.o.s.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.

### 14.3 Transport hazard class(es)

DOT	9
IMDG-Code	9
ICAO-TI	9

### 14.4 Packing group

DOT	III
IMDG-Code	III
ICAO-TI	III

### 14.5 Environmental hazards

hazardous to the aquatic environment



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### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

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 UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III

Reportable quantity (RQ) 2,772 lbs (1,259 kg) (Naphthalene) (Xylene)

Danger label(s) 9, fish and tree



Environmental hazards YES (hazardous to the aquatic environment)

Special provisions (SP) 8, 146, 173, 335, IB3, T4, TP1, TP29

ERG No 171

##### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant YES (hazardous to the aquatic environment) (Solvent naphtha, petroleum, heavy aromatic)

Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 969

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

EmS F-A, S-F

Stowage category A

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

Environmental hazards YES (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg



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### 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
1, 2, 4-Trimethylbenzene	95-63-6		1986-12-31
Xylene	1330-20-7		1986-12-31
Cumene	98-82-8		1986-12-31
Ethylbenzene	100-41-4		1986-12-31
Naphthalene	91-20-3		1986-12-31

##### 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)
Xylene	1330-20-7		1 3 4	100 (45,4)
Cumene	98-82-8		3 4	5000 (2270)
Ethylbenzene	100-41-4		1 2 3	1000 (454)
Naphthalene	91-20-3		1 2 3 4	100 (45,4)

##### Legend

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

##### Clean Air Act

none of the ingredients are listed





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### Right to Know Hazardous Substance List

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

Name of substance	CAS No	Functionality	Authoritative Lists
1, 2, 4-Trimethylbenzene	95-63-6		CA NLS IRIS Neurotoxicants
Naphthalene	91-20-3		ATSDR Neurotoxicants CA NLS CA TACs CDC 4th National Exposure Report CWA 303(c) CWA 303(d) IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHHA RELs Prop 65 US EPA NWMP PBTs
1, 3, 5-Trimethylbenzene	108-67-8		CA NLS IRIS Neurotoxicants
Xylene	1330-20-7		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(d) IRIS Neurotoxicants OEHHA RELs
Cumene	98-82-8		CA NLS CA TACs CDC 4th National Exposure Report IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHHA RELs Prop 65
Ethylbenzene	100-41-4		ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) CWA 303(d) IARC Carcinogens - 2B OEHHA RELs Prop 65

#### - Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
1, 2, 4-Trimethylbenzene	95-63-6				1.0 %
Xylene	1330-20-7				1.0 %
Cumene	98-82-8				0.1 %
Ethylbenzene	100-41-4				0.1 %
Naphthalene	91-20-3				0.1 %



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### - Hazardous Substances List (MN-ERTK)

Name of substance	CAS No	References	Remarks
Trade Secret	34590-94-8	A, O	
1, 2, 4-Trimethylbenzene	25551-13-7	A	
Xylene	1330-20-7	A, N, O	
1, 3, 5-Trimethylbenzene	25551-13-7	A	
Naphthalene	91-20-3	A, O	

#### Legend

- 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

### - Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Trade Secret	34590-94-8		F2
1, 2, 4-Trimethylbenzene	95-63-6		F2
Xylene	1330-20-7		F3
1, 3, 5-Trimethylbenzene	25551-13-7		F2
Cumene	98-82-8		F3 R1
Ethylbenzene	100-41-4		CA F3
Naphthalene	91-20-3		CA F2

#### Legend

- CA Carcinogenic
- F2 Flammable - Second Degree
- F3 Flammable - Third Degree
- R1 Reactive - First Degree

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

Name acc. to inventory	CAS No	Classification
PROPANOL, (2-METHOXYMETHYLETHOXY)-	34590-94-8	
PSEUDOCUMENE	95-63-6	E
BENZENE, DIMETHYL-	1330-20-7	E
BENZENE, TRIMETHYL-	25551-13-7	
BENZENE, (1-METHYLETHYL)-	98-82-8	E
BENZENE, ETHYL-	100-41-4	E
NAPHTHALENE	91-20-3	E



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### Legend

E Environmental hazard

### - Hazardous Substance List (RI-RTK)

Name of substance	CAS No	References
Trade Secret	34590-94-8	T
1, 2, 4-Trimethylbenzene	25551-13-7	T
Xylene	1330-20-7	T, F
1, 3, 5-Trimethylbenzene	25551-13-7	T
Cumene	98-82-8	T, F
Ethylbenzene	100-41-4	T, F
Naphthalene	91-20-3	T, F

### Legend

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

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

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
cumene	98-82-8		cancer
ethylbenzene	100-41-4		cancer
naphthalene	91-20-3		cancer

### 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	0	no significant risk to health
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).



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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	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

### National inventories

Country	Inventory	Status
US	TSCA	not all ingredients are listed

#### Legend

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
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
2.3	Other hazards: of no significance	Other hazards: This material is combustible, but will not ignite readily.	yes
9.1	Flash point: 50 °C at 1,013 hPa	Flash point: 70 °C at 1,013 hPa	yes
14.1	DOT: UN 3295	DOT: UN 3082	yes
14.1	IMDG-Code: UN 3295	IMDG-Code: UN 3082	yes
14.1	ICAO-TI: UN 3295	ICAO-TI: UN 3082	yes
14.2	DOT: Hydrocarbons, liquid, n.o.s.	DOT: Environmentally hazardous substance, liquid, n.o.s.	yes



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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.2	IMDG-Code: HYDROCARBONS, LIQUID, N.O.S.	IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	yes
14.2	ICAO-TI: Hydrocarbons, liquid, n.o.s.	ICAO-TI: Environmentally hazardous substance, liquid, n.o.s.	yes
14.3	DOT: 3	DOT: 9	yes
14.3	IMDG-Code: 3	IMDG-Code: 9	yes
14.3	ICAO-TI: 3	ICAO-TI: 9	yes
14.5	Environmentally hazardous substance (aquatic environment): Solvent naphtha, petroleum, heavy aromatic		yes
14.7	Particulars in the shipper's declaration: UN3295, Hydrocarbons, liquid, n.o.s., 3, III, environmentally hazardous	Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., 9, III	yes
14.7	Danger label(s): 3, fish and tree	Danger label(s): 9, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 144, B1, IB3, T4, TP1, TP29	Special provisions (SP): 8, 146, 173, 335, IB3, T4, TP1, TP29	yes
14.7	ERG No: 128	ERG No: 171	yes
14.7	Marine pollutant: yes (hazardous to the aquatic environment)	Marine pollutant: yes (hazardous to the aquatic environment) (Solvent naphtha, petroleum, heavy aromatic)	yes
14.7	Danger label(s): 3, fish and tree	Danger label(s): 9, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): 223	Special provisions (SP): 274, 335, 969	yes
14.7	EmS: F-E, S-D	EmS: F-A, S-F	yes
14.7	Danger label(s): 3	Danger label(s): 9, fish and tree	yes
14.7		Danger label(s): change in the listing (table)	yes
14.7	Special provisions (SP): A3	Special provisions (SP): A97, A158, A197, A215	yes
14.7	Limited quantities (LQ): 10 L	Limited quantities (LQ): 30 kg	yes



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### 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®	American Conference of Governmental Industrial Hygienists
ACGIH® 2021	From ACGIH®, 2021 TLVs® and BEIs® Book. Copyright 2021. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a>
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
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EmS	Emergency Schedule
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
HHS	Higher hazard substance
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
LHS	Lower hazard substance
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")



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Abbr.	Descriptions of used abbreviations
NFPA®	National Fire Protection Association (United States)
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
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
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 Properties. The classification is based on tested mixture.

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

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

Code	Text
H226	Flammable liquid and vapor.
H227	Combustible liquid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.



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Code	Text
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

### Disclaimer

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