

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



C7 + GASOLINE

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	05/11/2026	BEN258	Date of first issue: 05/11/2026

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	C7 + GASOLINE
Synonyms	:	C7+ Gasoline
Substance name	:	Mixture
Unique Formula Identifier (UFI)	:	X000-50SS-Y00X-U2UN

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

Identified uses	:	Manufacture; Use as intermediate; Distribution of substance; Formulation & (re)packing of substance and mixtures; Use as a fuel
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1.3 Details of the supplier of the safety data sheet

Company	Registration number	Telephone
MUO Polyolefine GmbH Berghauser Weg 50 85126 Münchsmünster Germany	N/A	+31 (0) 10 713 6860
E-mail address Responsible/issuing person	: RegulatoryComplianceROP@velogy.com	

1.4 Emergency telephone number

MUO Polyolefine GmbH	+49 8402 7 6112
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Poison Center:

CareChem 24
DE: +44 1235 239 670
24 hours all days

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapour.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Germ cell mutagenicity, Category 1B	H340: May cause genetic defects.

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Carcinogenicity, Category 1A	H350: May cause cancer.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Effects on or via lactation	H362: May cause harm to breast-fed children.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361d	Suspected of damaging the unborn child.
H362	May cause harm to breast-fed children.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P260	Do not breathe mist or vapours.
P263	Avoid contact during pregnancy and while nursing.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.

Hazardous components which must be listed on the label:

Hydrotreated heavy naphtha (petroleum)
Toluene
Hydrocarbons, C5 rich
Benzene

Additional Labelling

Restricted to professional users.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 12.4998 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 12.4998 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 12.4998 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
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	Index-No. Registration number		
Hydrotreated heavy naphtha (petroleum)	64742-48-9 265-150-3 649-327-00-6 01-2119486659-16-XXXX	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Muta. 1B; H340 Carc. 1B; H350 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 90 - <= 100
Toluene	108-88-3 203-625-9 601-021-00-3 01-2119471310-51-XXXX	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361d Lact.; H362 STOT SE 3; H336 (Central nervous system) STOT RE 1; H372 (Nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 50 - < 70
2,4,4-trimethylpentene	25167-70-8 246-690-9 601-087-00-3 01-2119441795-31-XXXX	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 50 - < 70
Hydrocarbons, C5 rich	68476-55-1 270-695-5 649-402-00-3 01-2119483622-36-XXXX	Muta. 1B; H340 Carc. 1B; H350 Asp. Tox. 1; H304	>= 30 - < 50
Ethylbenzene	100-41-4 202-849-4 648-010-00-X 01-2119489370-35-XXXX	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 Acute toxicity estimate Acute inhalation toxicity (vapour): 17.6 mg/l 17.6 mg/l	>= 25 - < 30

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Xylene, mixture of isomers	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32-XXXX	17.6 mg/l Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 <hr/> Acute toxicity estimate Acute inhalation toxicity (dust/mist): 2.7124 mg/l 2.7124 mg/l 2.7124 mg/l Acute dermal toxicity: 1,923 mg/kg 1,923 mg/kg 1,923 mg/kg	>= 20 - < 30
n-Pentane	109-66-0 203-692-4 601-006-00-1 01-21194592286-30-XXXX	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 20
Isopentane	78-78-4 201-142-8 601-085-00-2 01-2119475602-38-XXXX	Flam. Liq. 1; H224 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 20
Cyclopentane	287-92-3 206-016-6 601-030-00-2	Flam. Liq. 2; H225 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 2.5
Benzene	71-43-2 200-753-7 601-020-00-8 01-2119447106-44-XXXX	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Muta. 1B; H340 Carc. 1A; H350	>= 1 - < 2.5

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		STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (Blood) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	
Styrene	100-42-5 202-851-5 601-026-00-0 01-2119457861-32-0017	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 <hr/> Acute toxicity estimate Acute inhalation toxicity (vapour): 11.8 mg/l 11.8 mg/l	>= 1 - < 2.5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Do not leave the victim unattended.
Show this material safety data sheet to the doctor in attendance.
- If inhaled : Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Move to fresh air in case of accidental inhalation of vapors.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
In case of contact, immediately flush skin with soap and plenty of water.
Wash contaminated clothing before re-use.

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In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention immediately.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages.
If a person vomits when lying on his back, place him in the recovery position.
Never give anything by mouth to an unconscious person.
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Adverse effects from repeated inhalation may include
Acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.
Dizziness
Drowsiness
burning or stinging of the eye

Risks : May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause genetic defects.
May cause cancer.
Suspected of damaging the unborn child.
May cause harm to breast-fed children.
Causes damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May cause genetic defects.
May cause cancer.
Suspected of damaging the unborn child.
May cause harm to breast-fed children.
Causes damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - small fires
- Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire-fighting : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Vapors may form flammable mixture with air
The product will float on water and can be reignited on surface water.
As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Wear suitable protective clothing, gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

- Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Ensure adequate ventilation.
Collect as much of the spill as possible with a suitable absorbent material.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

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6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Keep away from heat and sources of ignition.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
Use only in area provided with appropriate exhaust ventilation.
- Hygiene measures : Remove and wash contaminated clothing before re-use. Provide working environment to minimize the exposure of the persons and appropriate protective equipment for handling the product, because almost no data is available concerning the harmfulness of this product. Provide adequate ventilation.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Take measures to prevent the build up of electrostatic charge.
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.
- Storage class (TRGS 510) : 3

7.3 Specific end use(s)

- Specific use(s) : See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Hydrotreated heavy naphtha (petroleum)	64742-48-9	MAK	50 ppm 300 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
Toluene	108-88-3	TWA	50 ppm 192 mg/m ³	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			

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		STEL	100 ppm 384 mg/m3	2006/15/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		MAK	50 ppm 190 mg/m3	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW	50 ppm 190 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		MAK	20 ppm 88 mg/m3	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Danger of absorption through the skin, Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW	20 ppm 88 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Xylene, mixture of isomers	1330-20-7	MAK	50 ppm 220 mg/m3	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Danger of absorption through the skin, Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
		TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	50 ppm	DE TRGS

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			220 mg/m ³	900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: Skin absorption			
n-Pentane	109-66-0	TWA	1,000 ppm 3,000 mg/m ³	2006/15/EC
	Further information: Indicative			
		AGW	1,000 ppm 3,000 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		MAK	1,000 ppm 3,000 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
Isopentane	78-78-4	TWA	1,000 ppm 3,000 mg/m ³	2006/15/EC
	Further information: Indicative			
		AGW	1,000 ppm 3,000 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
		MAK	1,000 ppm 3,000 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
n-Butane	106-97-8	AGW	1,000 ppm 2,400 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			
		MAK	1,000 ppm 2,400 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 4; II			
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
Isobutane	75-28-5	AGW	1,000 ppm 2,400 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 4;(II)			
		MAK	1,000 ppm 2,400 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 4; II			
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
Benzene	71-43-2	TWA	0.5 ppm 1.65 mg/m ³	2004/37/EC
	Further information: Skin, Carcinogens or mutagens			
		Tolerable concentration	0.6 ppm 1.9 mg/m ³	DE TRGS 910
	Peak-limit: excursion factor (category): 8 - Excursion factor according to Num-			

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	ber 3.2.6			
	Further information: Skin-resorptive			
		Acceptable concentration	0.06 ppm 0.2 mg/m ³	DE TRGS 910
	Further information: Skin-resorptive			
Styrene	100-42-5	MAK	20 ppm 86 mg/m ³	DE DFG MAK
	Peak-limit: excursion factor (category): 2; II			
	Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW	20 ppm 86 mg/m ³	DE TRGS 900
	Peak-limit: excursion factor (category): 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Toluene	108-88-3	toluene: 75 µg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
		toluene: 600 µg/l (Blood)	End of shift	DE DFG BAT
		o-cresol: 1.5 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
		toluene: 75 µg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		toluene: 600 µg/l (Blood)	End of shift	TRGS 903
		o-cresol: 1.5 mg/l (Urine)	In case of long-term exposure: after more than one shift	TRGS 903
Ethylbenzene	100-41-4	mandelic acid plus phenylglyoxylic acid: 250 mg/g Creatinine (Urine)	Immediately after exposition or after working hours	DE DFG BAT
		mandelic acid + phenylglyoxylic acid: 250 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903
Xylene, mixture of isomers	1330-20-7	Methylhippuric acid (toluric acid) (all isomers): 1800 mg/g Creatinine (Urine)	Immediately after exposition or after working hours	DE DFG BAT

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		methylhippuric acid (all isomers): 2,000 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
Benzene	71-43-2	Benzene: 5 µg/l (Urine)	Equivalence Value for Tolerable concentration: end of exposure or end of shift	TRGS 910
		Benzene: 0.8 µg/l (Urine)	Equivalence Value for Acceptance concentration: end of exposure or end of shift	TRGS 910
		S-phenylmercapturic acid: 25 µg/g creatinine (Urine)	Equivalence Value for Tolerable concentration: end of exposure or end of shift	TRGS 910
		S-phenylmercapturic acid: 3 µg/g creatinine (Urine)	Equivalence Value for Acceptance concentration: end of exposure or end of shift	TRGS 910
		trans,trans-muconic acid: 500 µg/g creatinine (Urine)	Equivalence Value for Tolerable concentration: end of exposure or end of shift	TRGS 910
Styrene	100-42-5	mandelic acid plus phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	Immediately after exposition or after working hours	DE DFG BAT
		mandelic acid + phenylglyoxylic acid: 600 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903

8.2 Exposure controls

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Eye/face protection : Wear safety glasses with side shields or goggles.

Hand protection

Remarks : Wear chemical resistant gloves such as: Glove material fluoroelastomer; material thickness 0.4 mm; break through time ≥ 480 min. Gloves must be replaced after 8 hours of wear. The

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selected protective gloves have to satisfy the standard EN 374 derived from it. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

- Skin and body protection : Flame retardant antistatic protective clothing.
Safety shoes
- Respiratory protection : In the case of vapor formation use a respirator with an approved filter.
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Protective measures : Ensure adequate ventilation.
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
For rescue and maintenance work in storage tanks use self-contained breathing apparatus.
Ensure that eye flushing systems and safety showers are located close to the working place.

Environmental exposure controls

- Soil : The product should not be allowed to enter drains, water courses or the soil.
Pick up contaminated soil.
- Water : Retain and dispose of contaminated wash water.
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : colorless, to, light yellow
- Odour : characteristic
hydrocarbon-like
- Odour Threshold : not determined
- Melting point/range : < -20 °C
- Boiling point/boiling range : > 35 - 230 °C (1,013 hPa)
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Flammability : Not applicable

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : 1 vol%

Flash point : 21 °C

Decomposition temperature : Hazardous decomposition products formed under fire conditions.
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

pH : Not applicable

Viscosity
Viscosity, kinematic : < 1 mm²/s (37.8 °C)

Solubility(ies)
Water solubility : study scientifically unjustified

Partition coefficient: n-octanol/water : study scientifically unjustified

Vapour pressure : < 45 kPa

Density : 0.6 - 0.9 g/cm³ (15 °C)

Relative vapour density : 2.1

9.2 Other information

Explosives : study scientifically unjustified

Oxidizing properties : Not considered an oxidizing agent.

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Self-ignition : not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable. Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Hydrotreated heavy naphtha (petroleum):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Toluene:

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Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 25.7 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

2,4,4-trimethylpentene:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 19.17 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17.6 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Acute toxicity estimate: 17.6 mg/l
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit.): 15,400 mg/kg

Xylene, mixture of isomers:

Acute inhalation toxicity : LC50 (Rat): 2.7124 mg/l
Exposure time: 4 HOURS
Test atmosphere: dust/mist

LC50 (Rat): 4550 ppm
Exposure time: 4 HOURS
Test atmosphere: dust/mist

Acute toxicity estimate: 2.7124 mg/l
Test atmosphere: dust/mist

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Method: Calculation method

Acute dermal toxicity : LD50: 1,923 mg/kg
Acute toxicity estimate: 1,923 mg/kg
Method: Calculation method

n-Pentane:

Acute inhalation toxicity : LC50 (Rat): 25.3 mg/l
Exposure time: 4 HOURS
Test atmosphere: dust/mist

Isopentane:

Acute inhalation toxicity : LC50 (Mouse): 413 mg/l
Exposure time: 2 HOURS
Test atmosphere: dust/mist

LC50 (Rat): 1,281.9 mg/l
Exposure time: 4 HOURS
Test atmosphere: dust/mist

Cyclopentane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 25.3 mg/l
Exposure time: 4 HOURS
Test atmosphere: dust/mist

Benzene:

Acute oral toxicity : LD50 (Rat): 5,970 mg/kg
Acute inhalation toxicity : LC50 (Rat): 44.5 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Assessment: The component/mixture is minimally toxic after short term inhalation.
Acute dermal toxicity : LD50 (Rabbit.): 8,260 mg/kg

Styrene:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Assessment: The component/mixture is minimally toxic after single ingestion.
Acute inhalation toxicity : LC50 (Rat): 11.8 mg/l
Exposure time: 4 HOURS
Test atmosphere: vapour
Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

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Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes skin irritation.

Components:

Hydrotreated heavy naphtha (petroleum):

Result : Severe skin irritation

Toluene:

Result : Skin irritation

2,4,4-trimethylpentene:

Result : Mild skin irritation

Xylene, mixture of isomers:

Result : Skin irritation

Isopentane:

Remarks : Defatting of the skin with irritation, dryness and cracking.

Benzene:

Result : Skin irritation

Styrene:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Toluene:

Result : No eye irritation

2,4,4-trimethylpentene:

Assessment : No eye irritation

Xylene, mixture of isomers:

Result : Eye irritation

Benzene:

Result : Eye irritation

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Styrene:

Result : Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Components:

Toluene:

Assessment : Did not cause sensitization on laboratory animals.

2,4,4-trimethylpentene:

Assessment : Did not cause sensitization on laboratory animals.

Benzene:

Assessment : Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

May cause genetic defects.

Components:

Toluene:

Germ cell mutagenicity- Assessment : Negative for genotoxicity using both in vitro and in vivo tests.

2,4,4-trimethylpentene:

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.

Benzene:

Germ cell mutagenicity- Assessment : Positive result(s) from mutagenicity tests in mammals. Evidence that the substance has potential to cause mutations to germ cells

Carcinogenicity

May cause cancer.

Components:

Toluene:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

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2,4,4-trimethylpentene:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Ethylbenzene:

Carcinogenicity - Assessment : The International Agency for Research on Cancer (IARC, 2000) states that ethylbenzene is "possibly carcinogenic to humans" (Group 2B) on the basis of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in exposed humans.

Benzene:

Carcinogenicity - Assessment : Positive evidence from human epidemiological studies

Styrene:

Carcinogenicity - Assessment : This substance has been reported to cause tumors in certain animal species., Weight of evidence does not support classification as a carcinogen

Reproductive toxicity

Suspected of damaging the unborn child.
May cause harm to breast-fed children.

Components:

Toluene:

Reproductive toxicity - Assessment : Studies indicating a hazard to babies during the lactation period
Some evidence of adverse effects on development, based on animal experiments.

2,4,4-trimethylpentene:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Benzene:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

May cause drowsiness or dizziness.

Components:

Hydrotreated heavy naphtha (petroleum):

Assessment : The substance or mixture is classified as specific target organ

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toxicant, single exposure, category 3 with narcotic effects.

Toluene:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

2,4,4-trimethylpentene:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Xylene, mixture of isomers:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

n-Pentane:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Isopentane:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Cyclopentane:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Benzene:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Styrene:

Exposure routes : Inhalation
Assessment : Classified, May cause respiratory irritation.

STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Components:

Toluene:

Target Organs : Nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

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2,4,4-trimethylpentene:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Ethylbenzene:

Target Organs : hearing organs
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Benzene:

Target Organs : Blood
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Styrene:

Exposure routes : Inhalation
Target Organs : hearing organs
Assessment : Causes damage to organs through prolonged or repeated exposure.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Components:

Hydrotreated heavy naphtha (petroleum):

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Toluene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

2,4,4-trimethylpentene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Hydrocarbons, C5 rich:

May be fatal if swallowed and enters airways.

Ethylbenzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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Xylene, mixture of isomers:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

n-Pentane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Isopentane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Cyclopentane:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Benzene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Styrene:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Based on available data, the classification criteria are not met.

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Components:

Xylene, mixture of isomers:

Remarks : Xylene liquid and vapors may cause irritation of the eyes, nose and throat. Vapor exposures may cause dizziness and mental confusion and other symptoms of central nervous system depression. Accidental exposures of workers to very high concentrations of xylene vapors have been reported to cause reversible kidney and liver damage.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrotreated heavy naphtha (petroleum):

- | | | |
|--|---|---|
| Toxicity to fish | : | LL50 (Pimephales promelas (fathead minnow)): 10 mg/l
Exposure time: 96 HOURS |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Daphnia magna.): 4.5 mg/l
Exposure time: 48 HOURS |
| Toxicity to algae/aquatic plants | : | EL50 (algae): 3.1 mg/l
Exposure time: 72 HOURS |
| Toxicity to microorganisms | : | LL50 (Tetrahymena pyriformis): 15.41 mg/l
Exposure time: 72 HOURS |
| Toxicity to fish (Chronic toxicity) | : | Remarks: no data available |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOELR: 2.6 mg/l
Exposure time: 21 d
Species: daphnia |

Ecotoxicology Assessment

- | | | |
|--------------------------|---|--|
| Chronic aquatic toxicity | : | Toxic to aquatic life with long lasting effects. |
|--------------------------|---|--|

Toluene:

- | | | |
|--|---|--|
| Toxicity to fish | : | LC50 (Oncorhynchus kisutch): 5.5 mg/l
Exposure time: 96 HOUR |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Ceriodaphnia dubia): 3.78 mg/l
Exposure time: 48 HOUR |
| Toxicity to algae/aquatic plants | : | NOEC (Pseudokirchneriella subcapitata): 10 mg/l
Exposure time: 96 HOURS |
| Toxicity to microorganisms | : | EC50 (Nitrosomonas sp.): 84 mg/l
Exposure time: 24 HOURS |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 1.4 mg/l
Exposure time: 40 DAY
Species: Oncorhynchus kisutch |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0.74 mg/l
Exposure time: 7 DAY
Species: Ceriodaphnia dubia |

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2,4,4-trimethylpentene:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.58 mg/l
Exposure time: 96 HOURS
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.2 mg/l
Exposure time: 48 HOURS
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 1.5 mg/l
Exposure time: 72 HOURS
- Toxicity to fish (Chronic toxicity) : NOELR: 0.149 mg/l
Exposure time: 21 d
Species: Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.16 mg/l
Exposure time: 21 d
Species: Lamellibranchia (mussel)

Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Ethylbenzene:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l
Exposure time: 96 HOUR
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna.): 1.8 - 2.9 mg/l
Exposure time: 48 HOUR
- EC50 (Americamysis bahia (Mysid shrimp)): 2.6 mg/l
Exposure time: 96 HOURS
- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 3.6 mg/l
Exposure time: 96 HOURS
- NOEC (Pseudokirchneriella subcapitata (green algae)): 3.4 mg/l
Exposure time: 96 HOUR
- Toxicity to fish (Chronic toxicity) : NOEC: 0.96 mg/l
Exposure time: 30 d
Test Type: ChV
Remarks: (QSAR calculated value)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.96 mg/l
Exposure time: 7 DAY
Species: Ceriodaphnia dubia

Xylene, mixture of isomers:

- Toxicity to fish : LC50 (rainbow trout.): 13.5 mg/l

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Exposure time: 96 HOUR

LC50 (goldfish): 13 mg/l
Exposure time: 24 HOUR

n-Pentane:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 4.3 mg/l
Exposure time: 96 HOURS

Toxicity to daphnia and other : EC50 (Daphnia magna.): 9.7 mg/l
aquatic invertebrates Exposure time: 48 HOURS

Toxicity to algae/aquatic : EC50 (Scenedesmus capricornutum (fresh water algae)): 10.7
plants mg/l
Exposure time: 72 HOURS

NOEC (Scenedesmus capricornutum (fresh water algae)):
2.04 mg/l
Exposure time: 72 HOURS

Toxicity to microorganisms : NOEL (Tetrahymena pyriformis (ciliated protozoa)): 23.7 mg/l
Exposure time: 48 HOURS

EL50 (Tetrahymena pyriformis (ciliated protozoa)): 105.9 mg/l
Exposure time: 48 HOURS

Toxicity to fish (Chronic tox- : NOELR: 6.165 mg/l
icity) Exposure time: 28 d
Species: Oncorhynchus mykiss
Remarks: (QSAR calculated value)

Toxicity to daphnia and other : NOELR: 10.76 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity) Species: Daphnia magna.
Remarks: (QSAR calculated value)

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil : Will not adsorb on soil.

Other organisms relevant to : No data available.
the environment

Isopentane:

Toxicity to daphnia and other : EC50 (Daphnia magna.): 2.3 mg/l
aquatic invertebrates Exposure time: 48 HOURS
Test Type: EC50

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Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Cyclopentane:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 4.26 mg/l
Exposure time: 96 HOURS

Toxicity to daphnia and other aquatic invertebrates : EL50 : 51.15 mg/l
Exposure time: 48 HOURS
Remarks: (QSAR calculated value)

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 10.7 mg/l
Exposure time: 72 HOURS

Toxicity to microorganisms : EL50 (Activated sludge): 112.4 mg/l
Exposure time: 48 HOURS

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Benzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.3 mg/l
Exposure time: 96 HOURS

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 10 mg/l
Exposure time: 48 HOURS

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 29 mg/l
Exposure time: 72 HOURS

Toxicity to fish (Chronic toxicity) : EC10: ≥ 0.013 mg/l
Exposure time: 27 d
Species: Oncorhynchus mykiss (rainbow trout)

LC50: 8.25 mg/l
Exposure time: 27 d
Species: Oncorhynchus mykiss (rainbow trout)

LOEC: 1.6 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)

NOEC: 0.8 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC: 2.97 mg/l
Exposure time: 7 DAY

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ic toxicity) Species: Ceriodaphnia (water flea)

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Styrene:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.02 mg/l
Exposure time: 96 HOUR

Toxicity to daphnia and other : EC50 (Daphnia magna.): 4.7 mg/l
aquatic invertebrates Exposure time: 48 HOUR

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (microalgae)): 4.9 mg/l
plants Exposure time: 72 HOUR

EC10 (Pseudokirchneriella subcapitata): 0.28 mg/l
Exposure time: 96 HOURS

Toxicity to microorganisms : EC50 (Activated sludge): 500 mg/l
Exposure time: 30 min

Toxicity to fish (Chronic tox- : Remarks: no data available
icity)

Toxicity to daphnia and other : NOEC: 1.01 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity) Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : Not classified due to data which are conclusive although insuf-
ficient for classification.

12.2 Persistence and degradability

Components:

Hydrotreated heavy naphtha (petroleum):

Biodegradability : Result: Biodegradable
Remarks: Biodegradable

Toluene:

Biodegradability : Result: Biodegradable
Biodegradation: 80 %

2,4,4-trimethylpentene:

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Biodegradability : Result: Not readily biodegradable.
Biodegradation: 1.6 %
Exposure time: 28 d

Ethylbenzene:

Biodegradability : Result: Biodegradable
Biodegradation: 79 %

Xylene, mixture of isomers:

Biodegradability : Result: Biodegradable
Remarks: Biodegradable

n-Pentane:

Biodegradability : Result: Biodegradable

Impact on Sewage Treatment : Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

Isopentane:

Biodegradability : Result: Biodegradable

Stability in water : Remarks: Volatilization from water surfaces is expected to be an important environmental fate process.

Photodegradation : Remarks: Photochemical degradation in air is expected to be rapid.

Cyclopentane:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %

Benzene:

Biodegradability : Result: Biodegradable
Biodegradation: 63 - 96 %

Stability in water : Remarks: Hydrolyzes slowly.

Styrene:

Biodegradability : Result: Biodegradable
Biodegradation: 70.9 %

12.3 Bioaccumulative potential

Components:

Hydrotreated heavy naphtha (petroleum):

Bioaccumulation : Remarks: This material may bioaccumulate.

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Toluene:

Bioaccumulation : Bioconcentration factor (BCF): 90
Remarks: This material is not expected to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2.69

2,4,4-trimethylpentene:

Bioaccumulation : Bioconcentration factor (BCF): 466.8
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.
Does not significantly accumulate in organisms.

Ethylbenzene:

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.6 (20 °C)

Xylene, mixture of isomers:

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

Partition coefficient: n-octanol/water : Pow: > 3.12

n-Pentane:

Bioaccumulation : Bioconcentration factor (BCF): 171
Remarks: (QSAR calculated value)
This material is not expected to bioaccumulate.

Isopentane:

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

Cyclopentane:

Bioaccumulation : Bioconcentration factor (BCF): 70.8
Method: (QSAR calculated value)
Remarks: This material is not expected to bioaccumulate.

Benzene:

Bioaccumulation : Remarks: This material is not expected to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2.13

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Styrene:

Bioaccumulation : Bioconcentration factor (BCF): 74
Method: (QSAR calculated value)
Remarks: This material is not expected to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 2.96

12.4 Mobility in soil

Components:

Hydrotreated heavy naphtha (petroleum):

Mobility : Remarks: no data available

Distribution among environmental compartments : Remarks: The product is insoluble and floats on water.

Toluene:

Stability in soil : Remarks: Low potential for soil adsorption expected

2,4,4-trimethylpentene:

Mobility : Remarks: no data available

Distribution among environmental compartments : Stability in water
Remarks: no data available

Stability in soil
Remarks: no data available

Ethylbenzene:

Distribution among environmental compartments : Remarks: The atmosphere is the main environmental compartment for releases of ethylbenzene (half-life approx. 1 day).
In water, volatilization to air and biodegradation will result in substantial losses, with an estimated half-life of approx. 0.1 - 13 days.

n-Pentane:

Stability in soil : Remarks: Volatilization from moist soil surfaces is expected to be an important fate process of this material.

Isopentane:

Stability in soil : Remarks: Volatilization from moist soil surfaces is expected to be an important fate process of this material.

Cyclopentane:

Stability in soil : Remarks: Low potential for soil adsorption expected

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Benzene:

Stability in soil : Remarks: Not expected to adsorb on soil.

Styrene:

Distribution among environmental compartments : Remarks: The atmosphere is the main environmental compartment for releases of styrene. In water, volatilization will result in substantial losses to the atmosphere with a half-life of approximately 3 hours. A calculated Koc value of 352 indicates no significant potential for geoaccumulation.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Benzene:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Components:

Hydrotreated heavy naphtha (petroleum):

Environmental fate and pathways : No additional information available.

Additional ecological information : It may cause long term adverse effects in the aquatic environment.

Toluene:

Additional ecological information : No additional information available.

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2,4,4-trimethylpentene:

Environmental fate and pathways : no data available

Additional ecological information : no data available

Ethylbenzene:

Environmental fate and pathways : No data available.

Xylene, mixture of isomers:

Environmental fate and pathways : This material is expected to exist solely as a vapor in the ambient atmosphere.
The vapor-phase of this material is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals and ozone.
Expected to have moderate mobility in soils.
Volatilization from moist soil surfaces is expected.
Volatilization from dry soil surfaces is expected.

Isopentane:

Environmental fate and pathways : This material is likely to evaporate from soil and water.

Cyclopentane:

Environmental fate and pathways : Hydrolysis is not expected to be an important factor in the environmental fate process for this material.
It is not expected to adsorb onto soils or sediments.
Limited biodegradation.
Expected to have high mobility in soils.
This material is expected to exist solely as a vapor in the ambient atmosphere.
The vapor-phase of this material is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals and ozone.

Styrene:

Additional ecological information : No additional information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.

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After recovery of solvent dispose of residue as hazardous waste.
Dispose of as hazardous waste in compliance with local and national regulations.
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	UN 1268
RID	:	UN 1268
IMDG	:	UN 1268
IATA (Cargo)	:	UN 1268

14.2 UN proper shipping name

ADR	:	PETROLEUM DISTILLATES, N.O.S. ()
RID	:	PETROLEUM DISTILLATES, N.O.S. ()
IMDG	:	PETROLEUM DISTILLATES, N.O.S. ()
IATA (Cargo)	:	PETROLEUM DISTILLATES, N.O.S.

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	:	3
RID	:	3
IMDG	:	3
IATA (Cargo)	:	3

14.4 Packing group

ADR		
Packing group	:	II
Classification Code	:	F1
Hazard Identification Number	:	33
Labels	:	3
Tunnel restriction code	:	D/E
Remarks	:	Special Provision 640D

RID		
Packing group	:	II

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Classification Code : F1
Hazard Identification Number : 33
Labels : 3

IMDG

Packing group : II
Labels : 3
EmS Code : F-E, S-E

IATA (Cargo)

Packing group : II
Labels : Flammable Liquid

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:
Number on list 3

Number on list 5: Benzene

Number on list 28: Benzene, Hydrotreated heavy naphtha (petroleum), Hydrocarbons, C5 rich

Number on list 28: n-Butane, Isobutane

Number on list 29: Hydrotreated heavy naphtha (petroleum), Hydrocarbons, C5 rich, Benzene

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Number on list 29: n-Butane, Isobutane

Number on list 48: Toluene

Number on list 72: Benzene

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Benzene

Water hazard class (Germany) : WGK 3 highly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.7.1.1: Carcinogenic substance:
Class 1: 100 % Hydrotreated Heavy Naphtha, Hydrocarbons, C5 rich
Class 2: 2 % Benzene

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 52 %
Volatile CMR compounds: 2 %

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : Not in compliance with the inventory

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KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
REACH	:	If the product has been purchased from Rotterdam Olefins & Polyolefins B.V., we confirm that the chemical substances in this product have been registered under REACH, in accordance with the deadlines set forth in REACH. (Regulation (EU) No. 1907/2006).
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory
CH BAGREG	:	Not in compliance with the inventory
MXINSQ	:	Not in compliance with the inventory
NCI	:	Not in compliance with the inventory
UKREACH	:	Not in compliance with the inventory
KKDIK	:	Not in compliance with the inventory

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H224	:	Extremely flammable liquid and vapour.
H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H319	:	Causes serious eye irritation.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H340	:	May cause genetic defects.
H350	:	May cause cancer.
H361d	:	Suspected of damaging the unborn child.
H362	:	May cause harm to breast-fed children.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.

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H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.
EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard
Asp. Tox. : Aspiration hazard
Carc. : Carcinogenicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Lact. : Effects on or via lactation
Muta. : Germ cell mutagenicity
Repr. : Reproductive toxicity
Skin Irrit. : Skin irritation
STOT RE : Specific target organ toxicity - repeated exposure
STOT SE : Specific target organ toxicity - single exposure
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
2006/15/EC : Europe. Indicative occupational exposure limit values
DE DFG BAT : Germany. MAK BAT Annex XIII
DE DFG MAK : Germany. MAK BAT Annex IIa
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 910 : Germany. TRGS 910 - Substance-specific acceptable and tolerable concentrations and equivalence values for carcinogenic hazardous substances.
TRGS 903 : TRGS 903 - Biological limit values
TRGS 910 : Germany. TRGS 910 - Substance-specific acceptable and tolerable concentrations and equivalence values for carcinogenic hazardous substances
2000/39/EC / TWA : Limit Value - eight hours
2000/39/EC / STEL : Short term exposure limit
2004/37/EC / TWA : Long term exposure limit
2006/15/EC / TWA : Limit Value - eight hours
2006/15/EC / STEL : Short term exposure limit
DE DFG MAK / MAK : MAK value
DE TRGS 900 / AGW : Time Weighted Average
DE TRGS 910 / Acceptable concentration : Acceptable concentration
DE TRGS 910 / Tolerable concentration : Tolerable concentration

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration

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associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Muta. 1B	H340
Carc. 1A	H350
Repr. 2	H361d
Lact.	H362
STOT SE 3	H336
STOT RE 1	H372
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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