

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 26/06/2018 Revision date: 20/01/2023 Supersedes version of: 08/05/2019 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Name : Fuel Injector Cleaner UFI : PPRP-314H-G601-XF9M

Product code : 12101 Type of product : Detergent Article number : 12101

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Consumer use Function or use category : Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV Maxwellstraat 41 3316 GP Dordrecht Nederland T 0031 78 651 2322 - F 0031 78 617 4848 mjkooijman@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 54924171

During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Acute toxicity (dermal), Category 4 H312 Acute toxicity (inhalation:dust,mist) Category 4 H332 Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 2 H319 Specific target organ toxicity – Single exposure, Category 3, H335

Respiratory tract irritation

Specific target organ toxicity - Repeated exposure, Category 2 H373 H304 Aspiration hazard, Category 1

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Hazardous to the aquatic environment - Chronic Hazard,

H412

Category 3

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02





Signal word (CLP)

Contains

Danger xylene; ethylbenzene

Hazard statements (CLP)

H226 - Flammable liquid and vapour.

11220 - Flaminable 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.

H335 - May cause respiratory irritation.

H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (If

swallowed:).

H412 - Harmful to aquatic life with long lasting effects.

H332 - Harmful if inhaled.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P501 - Dispose of contents and container to to a facility for the collection of hazardous or special waste..

P260 - Do not breathe vapours.

P264 - Wash hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P331 - Do NOT induce vomiting.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
xylene (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216- 32	40 – 60	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370- 35	5 – 15	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
DIMETHYL GLUTARATE	CAS-No.: 1119-40-0 EC-No.: 214-277-2	1 – 10	Not classified
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	CAS-No.: 34140-91-5 EC-No.: 251-846-4 REACH-no: 01-2119974119- 29	< 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411
DIMETHYL SUCCINATE	CAS-No.: 106-65-0 EC-No.: 203-419-9	< 3	Eye Irrit. 2, H319
DIMETHYL ADIPATE	CAS-No.: 627-93-0 EC-No.: 211-020-6	< 3	Eye Irrit. 2, H319
Phenol, (dimethylamino) methyl-polyisobutylene- derivatives	-	1 – 3	Aquatic Chronic 3, H412
toluene	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-	< 0.5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2	< 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If swallowed, seek medical advice immediately and show this container or label.

First-aid measures after inhalation : Allow affected person to breathe fresh air. Remove person to fresh air and keep comfortable for breathing.

: Take off immediately all contaminated clothing. Wash skin thoroughly with mild soap and

First-aid measures after skin contact water. Wash contaminated clothing before reuse.

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First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing.

First-aid measures after ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause damage to organs (kidneys) through prolonged or repeated exposure.

Symptoms/effects after inhalation : Harmful if inhaled. May cause respiratory irritation. Symptoms/effects after skin contact : Harmful in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Water spray. Foam. Dry powder.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other

toxic gases.

5.3. Advice for firefighters

Precautionary measures fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Firefighting instructions : Prevent fire fighting water from entering the environment. Exercise caution when fighting

any chemical fire. Evacuate area.

Protection during firefighting : Wear a self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Keep public away from danger area. Eliminate every possible source of ignition. Evacuate

area. Equip cleanup crew with proper protection. Ventilate area.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Dam up the liquid spill. Dike for recovery or absorb with appropriate material.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13: "Disposal considerations".

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas

with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene measures : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in dry, cool, well-ventilated area. Keep in original containers.

Incompatible materials : Freezing. heat. Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

xylene (1330-20-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	221 mg/m³ (Xylene, mixed isomers, pure; EU; Timeweighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL TWA [ppm]	50 ppm (Xylene, mixed isomers, pure; EU; Timeweighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL STEL	442 mg/m³ (Xylene, mixed isomers, pure; EU; Short time value; Indicative occupational exposure limit value)	
IOEL STEL [ppm]	100 ppm (Xylene, mixed isomers, pure; EU; Short time value; Indicative occupational exposure limit value)	
ethylbenzene (100-41-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	442 mg/m³ (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL TWA [ppm]	100 ppm (Ethylbenzene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL STEL	884 mg/m³ (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value)	
IOEL STEL [ppm]	200 ppm (Ethylbenzene; EU; Short time value; Indicative occupational exposure limit value)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	441 mg/m³ Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	

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ethylbenzene (100-41-4)		
WEL TWA (OEL TWA) [2]	100 ppm Ethylbenzene; United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	
WEL STEL (OEL STEL)	552 mg/m³ Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
WEL STEL (OEL STEL) [ppm]	125 ppm Ethylbenzene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	192 mg/m³ (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL TWA [ppm]	50 ppm (Toluene; EU; Time-weighted average exposure limit 8 h; Indicative occupational exposure limit value)	
IOEL STEL	384 mg/m³ (Toluene; EU; Short time value; Indicative occupational exposure limit value)	
IOEL STEL [ppm]	100 ppm (Toluene; EU; Short time value; Indicative occupational exposure limit value)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	191 mg/m³ Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	
WEL TWA (OEL TWA) [2]	50 ppm Toluene; United Kingdom; Time-weighted average exposure limit 8 h; Workplace exposure limit (EH40/2005)	
WEL STEL (OEL STEL)	384 mg/m³ Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
WEL STEL (OEL STEL) [ppm]	100 ppm Toluene; United Kingdom; Short time value; Workplace exposure limit (EH40/2005)	
naphthalene (91-20-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	52 mg/m³	
IOEL TWA [ppm]	10 ppm	
IOEL STEL	79 mg/m³	
IOEL STEL [ppm]	15 ppm	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	50 mg/m³	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses			EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Safety gloves					EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

Ensure good ventilation of the work station

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Yellow. Odour Not available Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability : Not available Lower explosion limit Not available Upper explosion limit : Not available : 30 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ : Not available

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Viscosity, kinematic : < 20.5 mm²/s 40°C
Solubility : Not available
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available

Density : 0.868 – 0.883 g/cm³ 20°C

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Open flame. Sparks. Heat. Water, humidity. Freezing.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Fuel Injector Cleaner		
ATE CLP (dermal)	1100 mg/kg bodyweight	
ATE CLP (dust,mist)	1.5 mg/l/4h	
xylene (1330-20-7)		
LD50 oral rat	4300 mg/kg	
LD50 dermal rabbit	2000 mg/kg	
LC50 Inhalation - Rat	6350 mg/l/4h	

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ethylbenzene (100-41-4)	
LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15415 mg/kg
LC50 Inhalation - Rat	17.8 mg/l/4h
LC50 Inhalation - Rat [ppm]	4000 ppm/4h
toluene (108-88-3)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	12223 mg/kg
LC50 Inhalation - Rat	> 20 mg/l/4h
naphthalene (91-20-3)	
LD50 oral rat	2600 mg/kg
LD50 dermal rat	> 2500 mg/kg
Serious eye damage/irritation : Respiratory or skin sensitisation : Germ cell mutagenicity :	Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified
toluene (108-88-3)	
IARC group	3 - Not classifiable
,	Not classified May cause respiratory irritation.
toluene (108-88-3)	
STOT-single exposure	May cause drowsiness or dizziness.
·	May cause damage to organs (kidneys) through prolonged or repeated exposure (If swallowed:).
ethylbenzene (100-41-4)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
oleic acid, compound with (Z)-N-octadec-9-en	ylpropane-1,3-diamine (2:1) (34140-91-5)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
toluene (108-88-3)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard :	May be fatal if swallowed and enters airways.
Fuel Injector Cleaner	
Viscosity, kinematic	< 20.5 mm²/s 40°C

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acute)

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Hazardous to the aquatic environment, long–term : Harmful to aquatic life with long lasting effects. (chronic)

xylene (1330-20-7)			
LC50 - Other aquatic organisms [1]	8.9 – 16.4 mg/l (Pimephales promelas 96h)		
EC50 - Crustacea [1]	3.2 – 9.5 mg/l (Daphnia magna) (48h)		
ethylbenzene (100-41-4)	ethylbenzene (100-41-4)		
LC50 - Fish [2]	4.2 mg/l		
oleic acid, compound with (Z)-N-octadec-9-en	ylpropane-1,3-diamine (2:1) (34140-91-5)		
LC50 - Fish [1]	0.01 – 0.1		
EC50 - Crustacea [1]	0.01 – 0.1		
EC50 72h - Algae [1]	0.01 – 0.1 mg/l		
toluene (108-88-3)			
LC50 - Fish [1]	24 mg/l Salmo gairdneri (Oncorhynchus mykiss)		
LC50 - Fish [2]	13 mg/l Lepornis macrochirus		
EC50 - Crustacea [1]	84 mg/l Locomotor effect		
EC50 - Crustacea [2]	11.5 – 19.6 mg/l		
Threshold limit - Algae [1]	> 400 mg/l Scenedesmus quadricauda; toxicity test		
Threshold limit - Algae [2]	105 mg/l Microcystis aeruginosa		
naphthalene (91-20-3)			
LC50 - Fish [1]	0.51 mg/l		
EC50 - Crustacea [1]	3.4 mg/l		

12.2. Persistence and degradability

xylene (1330-20-7)		
Persistence and degradability	Readily biodegradable.	
ethylbenzene (100-41-4)		
Persistence and degradability	Readily biodegradable.	
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.1 g O ₂ /g substance	
ThOD	3.17 g O ₂ /g substance	
BOD (% of ThOD)	45.4 % ThOD	
toluene (108-88-3)		
Persistence and degradability	Readily biodegradable.	
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance	
ThOD	3.13 g O ₂ /g substance	
BOD (% of ThOD)	0.69 % ThOD	
naphthalene (91-20-3)		
Persistence and degradability	Inherently biodegradable.	

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12.3. Bioaccumulative potential

xylene (1330-20-7)		
BCF - Fish [2]	7 – 26	
Bioconcentration factor (BCF REACH)	< 500	
Partition coefficient n-octanol/water (Log Pow)	3.2	
ethylbenzene (100-41-4)		
BCF - Fish [1]	1	
BCF - Fish [2]	15 – 79	
BCF - Other aquatic organisms [1]	4.68	
Bioconcentration factor (BCF REACH)	< 500	
Partition coefficient n-octanol/water (Log Pow)	3.15	
toluene (108-88-3)		
BCF - Fish [1]	13.2 Anguilla japonica	
BCF - Fish [2]	90 72h; Leuciscus idus	
BCF - Other aquatic organisms [1]	380 24h; Chlorella sp; Fresh weight	
BCF - Other aquatic organisms [2]	4.2 4.2; Mytilus edulis; Fresh weight	
Partition coefficient n-octanol/water (Log Pow)	2.73 Experimental value	
Bioaccumulative potential	Low.	

12.4. Mobility in soil

xylene (1330-20-7)		
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	
ethylbenzene (100-41-4)		
Surface tension	0.029 N/m	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	PCKOCWIN v1.66; 2.71; Calculated value; Koc; PCKOCWIN v1.66; 517.8; Calculated value	
toluene (108-88-3)		
Surface tension	0.03 N/m (20°C)	

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Prevent entry to sewers and public waters. Collect all waste in suitable and labelled containers and dispose according to local legislation. Do not re-use empty containers.

SECTION 14: Transport information

In accordance with / / ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID no	umber			
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping	g name			
FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	Flammable liquid, n.o.s.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
Fransport document descri	ption			
UN 1993 FLAMMABLE LIQUID, N.O.S. (xylene ; ethylbenzene), 3, III, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III	UN 1993 Flammable liquid, n.o.s., 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
14.3. Transport hazard c	lass(es)			
3	3	3	3	3
3	3	3	3	
14.4. Packing group				
III	III	III	III	III
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

Overland transport

: F1 Classification code (ADR)

: 274, 601, 640E Special provisions (ADR)

: 51 Limited quantities (ADR) : E1 Excepted quantities (ADR)

: P001, IBC03, LP01, R001 Packing instructions (ADR)

Mixed packing provisions (ADR) MP19 Portable tank and bulk container instructions (ADR) T4 Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBF Vehicle for tank carriage : FL Transport category (ADR) 3 Special provisions for carriage - Packages (ADR) : V12 Special provisions for carriage - Operation (ADR) : S2

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Hazard identification number (Kemler No.) : 30

Orange plates :

30 1993

Tunnel restriction code (ADR) : D/E EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 223, 274, 955

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : P001, LP01 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC03 : T4 Tank instructions (IMDG) Tank special provisions (IMDG) TP1, TP29 : F-E EmS-No. (Fire) EmS-No. (Spillage) : S-E Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) Y344 PCA limited quantity max net quantity (IATA) 10L PCA packing instructions (IATA) 355 PCA max net quantity (IATA) : 60L CAO packing instructions (IATA) : 366 : 220L CAO max net quantity (IATA) Special provisions (IATA) : A3 ERG code (IATA) : 3L

Inland waterway transport

Classification code (ADN) : F

Special provisions (ADN) : 274, 601, 640E

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : F1

Special provisions (RID) : 274, 601, 640E

Limited quantities (RID) : 5L Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBF
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE4
Hazard identification number (RID) : 30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition : aromatic hydrocarbons. ≥30%. Aliphatic hydrocarbons. <5%. regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
2.2	Precautionary statements (CLP)	Modified		
2.2	Hazard statements (CLP)	Modified		

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Abbreviations and acronyms:

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

ICAO: International Civil Aviation Organization

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Carc. 2	Carcinogenicity, Category 2	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Flam. Sol. 2	Flammable solids, Category 2	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	

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Full text of H- and EUH-statements:		
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.