



ENOC ENAYA Diesel Injector Cleaner

Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 04/08/2016

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : ENOC ENAYA Diesel Injector Cleaner
Product code : 223053

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Additive for Diesel

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ENOC Marketing L.L.C
ENOC House I
P.O. Box 6442
Dubai - United Arab Emirates
T +971 4 313 4613 - F +971 4 313 4616

1.4. Emergency telephone number

Emergency number : +97143374400
(business hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Carcinogenicity, Category 2 H351
Specific target organ toxicity — Single exposure, Category 3, Narcosis H336
Aspiration hazard, Category 1 H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H 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) :



GHS07



GHS08



GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

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P273 - Avoid release to the environment.

2.3. Other hazards not contributing to the classification

other hazards which do not result in classification : In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. May cause headache, nausea and irritation of respiratory tract. Dizziness.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10, aromatics, >% naphthalene	(REACH-no) 01-2119463588-24	50 - 100	Carc. 2, H351 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-Ethylhexanol	(CAS-No.) 104-76-7 (EC-No.) 203-234-3	< 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2	2.5 - 10	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 M=1 Aquatic Chronic 1, H410 M=1
Benzene, 1,2,4-trimethyl-	(CAS-No.) 95-63-6 (EC-No.) 202-436-9 (EC Index-No.) 601-043-00-3	2.5 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide oxygen and/or ventilation assistance, if needed. Get medical advice/attention.

First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash off immediately with soap and plenty of water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse immediately and plentifully with water, also under the eyelids, for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately get medical attention. Rinse mouth immediately and drink plenty of water. Caution if victim vomits: Risk of aspiration!. Ingestion of large quantities: immediately to hospital.

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

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Injection under the skin of pressurized hydrocarbons can cause severe, permanent tissue damage. May cause skin irritation / dermatitis.

Symptoms/effects after eye contact : May cause eye irritation.

Symptoms/effects after ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide (CO2). Dry powder.

Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.

Explosion hazard : Vapour heavier than air may travel considerable distance to a source of ignition and flash back.

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Hazardous decomposition products in case of fire : Hazardous combustion products. Nitrogen oxides. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray.
Protective equipment for firefighters : Wear proper protective equipment. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protection equipment.
Emergency procedures : Evacuate area. Avoid contact with skin, eyes and clothes.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing. In case of fire: Wear self-contained breathing apparatus.
Emergency procedures : Evacuate and limit access. Stop leak if safe to do so. Use ventilation/water spray/fog to disperse vapours. Do not touch spilled material. Eliminate all ignition sources if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Clean up any spills as soon as possible, using an absorbent material to collect it. For larger spills, dike area and pump into waste containers.
Methods for cleaning up : Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handling this product may result in electrostatic accumulation. Use proper grounding procedures.
Precautions for safe handling : Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Avoid static electricity discharges. Provide earthing of containers, equipment, pumps and ventilation facilities.
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothes. Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool and well-ventilated place.
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.
Special rules on packaging : Keep only in original container.
Packaging materials : Mild steel.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Naphthalene (91-20-3)		
EU	Local name	Naphthalene
EU	IOELV TWA (mg/m ³)	50 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	Notes	SCOEL Recommendations (2010)
Austria	MAK (mg/m ³)	50 mg/m ³
Austria	MAK (ppm)	10 ppm
Belgium	Limit value (mg/m ³)	53 mg/m ³
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m ³)	80 mg/m ³
Belgium	Short time value (ppm)	15 ppm
Bulgaria	OEL TWA (mg/m ³)	50 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	75 mg/m ³
Cyprus	OEL TWA (mg/m ³)	50 mg/m ³
Cyprus	OEL TWA (ppm)	10 ppm

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Naphthalene (91-20-3)		
Czech Republic	Expoziční limity (PEL) (mg/m ³)	50 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	50 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	10 ppm
Estonia	OEL TWA (mg/m ³)	50 mg/m ³
Estonia	OEL TWA (ppm)	10 ppm
Finland	HTP-arvo (8h) (mg/m ³)	5 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Finland	HTP-arvo (15 min)	10 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	2 ppm
France	Local name	Naphtalène
France	VME (mg/m ³)	50 mg/m ³
France	VME (ppm)	10 ppm
France	Note (FR)	Valeurs recommandées/admises; substance classée cancérigène de catégorie 2
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0.5 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.1 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Gibraltar	Eight hours mg/m ³	50 mg/m ³
Gibraltar	Eight hours ppm	10 ppm
Greece	OEL TWA (mg/m ³)	50 mg/m ³
Greece	OEL TWA (ppm)	10 ppm
Hungary	AK-érték	50 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	50 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m ³)	75 mg/m ³
Ireland	OEL (15 min ref) (ppm)	15 ppm
Latvia	OEL TWA (mg/m ³)	50 mg/m ³
Latvia	OEL TWA (ppm)	10 ppm
Lithuania	IPRV (mg/m ³)	50 mg/m ³
Lithuania	IPRV (ppm)	10 ppm
Luxembourg	OEL TWA (mg/m ³)	50 mg/m ³
Luxembourg	OEL TWA (ppm)	10 ppm
Malta	OEL TWA (mg/m ³)	50 mg/m ³
Malta	OEL TWA (ppm)	10 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	50 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	80 mg/m ³
Poland	NDS (mg/m ³)	20 mg/m ³
Poland	NDSch (mg/m ³)	50 mg/m ³
Portugal	OEL TWA (ppm)	10 ppm (indicative limit value)
Portugal	OEL STEL (ppm)	15 ppm
Romania	OEL TWA (mg/m ³)	50 mg/m ³
Romania	OEL TWA (ppm)	10 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	50 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	10 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	80 mg/m ³
Slovenia	OEL TWA (mg/m ³)	50 mg/m ³
Slovenia	OEL TWA (ppm)	10 ppm
Spain	VLA-ED (mg/m ³)	53 mg/m ³
Spain	VLA-ED (ppm)	10 ppm
Spain	VLA-EC (mg/m ³)	80 mg/m ³

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Naphthalene (91-20-3)		
Spain	VLA-EC (ppm)	15 ppm
Sweden	nivågränsvärde (NVG) (mg/m³)	50 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	80 mg/m³
Sweden	kortidsvärde (KTV) (ppm)	15 ppm
Norway	Grenseverdier (AN) (mg/m³)	50 mg/m³
Norway	Grenseverdier (AN) (ppm)	10 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m³)	75 mg/m³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	15 ppm (value calculated)
Switzerland	MAK (mg/m³)	50 mg/m³
Switzerland	MAK (ppm)	10 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	50 mg/m³
USA - NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
USA - NIOSH	NIOSH REL (STEL) (mg/m³)	75 mg/m³
USA - NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
USA - OSHA	Local name	Naphthalene
USA - OSHA	OSHA PEL (TWA) (mg/m³)	50 mg/m³
USA - OSHA	OSHA PEL (TWA) (ppm)	10 ppm
USA - OSHA	OSHA PEL (STEL) (mg/m³)	75 mg/m³
USA - OSHA	OSHA PEL (STEL) (ppm)	15 ppm
Benzene, 1,2,4-trimethyl- (95-63-6)		
EU	Local name	1,2,4-Trimethylbenzene
EU	IOELV TWA (mg/m³)	100 mg/m³
EU	IOELV TWA (ppm)	20 ppm
Austria	MAK (mg/m³)	100 mg/m³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m³)	150 mg/m³
Austria	MAK Short time value (ppm)	30 ppm
Bulgaria	OEL TWA (mg/m³)	100 mg/m³
Bulgaria	OEL TWA (ppm)	20 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	100 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	20 ppm
Cyprus	OEL TWA (mg/m³)	100 mg/m³
Cyprus	OEL TWA (ppm)	20 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	100 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	100 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	20 ppm
Estonia	OEL TWA (mg/m³)	100 mg/m³
Estonia	OEL TWA (ppm)	20 ppm
Finland	HTP-arvo (8h) (mg/m³)	100 mg/m³
Finland	HTP-arvo (8h) (ppm)	20 ppm
France	Local name	1,2,4-Triméthylbenzène
France	VME (mg/m³)	100 mg/m³
France	VME (ppm)	20 ppm
France	VLE (mg/m³)	250 mg/m³
France	VLE (ppm)	50 ppm
France	Note (FR)	Valeurs réglementaires contraignantes
France	France - BLV	600 mg/g Kreatinin Parameter: Total Dimethylbenzoic acids (after hydrolysis) in urine - Medium: urine - Sampling time: end of shift after several shifts
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	100 mg/m³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

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Benzene, 1,2,4-trimethyl- (95-63-6)		
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of shift (sum of all isomers after hydrolysis) 400 mg/g Parameter: Dimethylbenzoic acid - Medium: urine - Sampling time: end of several shifts (sum of all isomers after hydrolysis)
Gibraltar	Eight hours mg/m ³	100 mg/m ³
Gibraltar	Eight hours ppm	20 ppm
Greece	OEL TWA (mg/m ³)	125 mg/m ³
Greece	OEL TWA (ppm)	25 ppm
Hungary	AK-érték	100 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	100 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	300 mg/m ³ (calculated)
Ireland	OEL (15 min ref) (ppm)	60 ppm (calculated)
Italy	OEL TWA (mg/m ³)	100 mg/m ³
Italy	OEL TWA (ppm)	20 ppm
Latvia	OEL TWA (mg/m ³)	100 mg/m ³
Latvia	OEL TWA (ppm)	20 ppm
Luxembourg	OEL TWA (mg/m ³)	100 mg/m ³
Luxembourg	OEL TWA (ppm)	20 ppm
Malta	OEL TWA (mg/m ³)	100 mg/m ³
Malta	OEL TWA (ppm)	20 ppm
Netherlands	Grenswaarde TGG 8H (mg/m ³)	100 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	200 mg/m ³
Poland	NDS (mg/m ³)	100 mg/m ³
Poland	NDSch (mg/m ³)	170 mg/m ³
Portugal	OEL TWA (mg/m ³)	100 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	20 ppm (indicative limit value)
Romania	OEL TWA (mg/m ³)	100 mg/m ³
Romania	OEL TWA (ppm)	20 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	100 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	200 mg/m ³
Slovenia	OEL TWA (mg/m ³)	100 mg/m ³
Slovenia	OEL TWA (ppm)	20 ppm
Spain	VLA-ED (mg/m ³)	100 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	20 ppm (indicative limit value)
Sweden	nivågränsvärde (NVG) (mg/m ³)	120 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	170 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	35 ppm
Russian Federation	OEL TWA (mg/m ³)	10 mg/m ³ (vapor)
Norway	Grenseverdier (AN) (mg/m ³)	100 mg/m ³
Norway	Grenseverdier (AN) (ppm)	20 ppm
Norway	Grenseverdier (Kortidsverdi) (mg/m ³)	125 mg/m ³ (value calculated)
Norway	Grenseverdier (Kortidsverdi) (ppm)	30 ppm (value calculated)
Turkey	OEL TWA (mg/m ³)	100 mg/m ³
Turkey	OEL TWA (ppm)	20 ppm
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³

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Benzene, 1,2,4-trimethyl- (95-63-6)		
USA - NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
2-Ethylhexanol (104-76-7)		
EU	Local name	2-ethylhexan-1-ol
EU	IOELV TWA (mg/m ³)	5.4 mg/m ³
EU	IOELV TWA (ppm)	1 ppm
Austria	MAK (mg/m ³)	270 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	540 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Finland	HTP-arvo (8h) (mg/m ³)	5.4 mg/m ³
Finland	HTP-arvo (8h) (ppm)	1 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	54 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	10 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Poland	NDS (mg/m ³)	160 mg/m ³
Poland	NDSch (mg/m ³)	320 mg/m ³
Switzerland	MAK (mg/m ³)	110 mg/m ³
Switzerland	MAK (ppm)	20 ppm
Switzerland	KZGW (mg/m ³)	110 mg/m ³
Switzerland	KZGW (ppm)	20 ppm

8.2. Exposure controls

Appropriate engineering controls:

Either local exhaust or general room ventilation is usually required.

Personal protective equipment:

Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Protective goggles.

Materials for protective clothing:

Wear suitable protective clothing. Natural fibres (e.g. cotton)

Hand protection:

Wear suitable gloves tested to EN374. Thickness of glove material: > 0.13 mm. Break through time: ≥ 480 min. NBR (Nitrile rubber). Neoprene

Eye protection:

Use splash goggles when eye contact due to splashing is possible. DIN EN 166

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN140 with Type A/P2 filter or better.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Colour	: brown.
Odour	: Characteristics.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: 70 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.902 g/ml @ 15°C
Solubility	: insoluble.
Log Pow	: No data available
Viscosity, kinematic	: 2.6 cSt @ 40°C
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive. However, formation of explosive air/vapour mixtures are possible.
Oxidising properties	: Not oxidizing.
Explosive limits	: No data available

9.2. Other information

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

None known under normal conditions of use. No polymerization.

10.4. Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

Hydrocarbons, C10, aromatics, >% naphthalene

LD50 oral rat	> 2500
LD50 dermal rabbit	> 2000

2-Ethylhexanol

LC50 inhalation rat (ppm)	> 227 ppm (Exposure time: 6 h)
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Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic	2.6 mm ² /s @ 40°C
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SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

Hydrocarbons, C10, aromatics, >% naphthalene

LC50 fish 1	< 10 mg/l 96 hours
EC50 Daphnia 1	< 10 mg/l 48 hours
EC50 72h algae (1)	< 10 mg/l 72 hours

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Naphthalene (91-20-3)

BCF fish 1	30 - 430
Log Pow	3.6

Benzene, 1,2,4-trimethyl- (95-63-6)

Log Pow	3.63
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2-Ethylhexanol (104-76-7)

Log Pow	3.1
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.
Product/Packaging disposal recommendations	: Dispose of this material and its container to hazardous or special waste collection point. Empty container retains product residue. Handle uncleaned empty containers as full ones.

SECTION 14: Transport information






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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
3082	3082	3082	3082	3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic hydrocarbons), 9, III, (E)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (aromatic hydrocarbons), 9, III	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (aromatic hydrocarbons), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9

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ADR	IMDG	IATA	ADN	RID
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)				
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 601, 375
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13
Hazard identification number (Kemler No.)	: 90
Orange plates	: 

Tunnel restriction code (ADR)	: E
EAC code	: •3Z

- Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP2, TP29
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-F
Stowage category (IMDG)	: A

- Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964

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PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197
ERG code (IATA)	: 9L

- Inland waterway transport

Classification code (ADN)	: M6
Special provisions (ADN)	: 274, 335, 375, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0

- Rail transport

Classification code (RID)	: M6
Special provisions (RID)	: 274, 335, 375, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBV
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW31
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : International regulatory information:

AICS: Australia. Inventory of Chemical Substances (AICS) (as amended through 5 July 2016)
CAS RN: 91-20-3

Name: Naphthalene
Molecular formula: C10H8

DSL: Canada. Canada. Domestic Substances List (DSL), as amended through July 13, 2016
CAS RN: 91-20-3

Name: Naphthalene
Molecular formula: C10H8

Canada. Ontario Inventory (incomplete), based on TSCA Initial Inventory (1979), Appendix A, Chemical Substance Identities, and TSCA Inventory Supplement 1 (1980)
CAS RN: 91-20-3

Name: Naphthalene

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Molecular formula: C10H8

ENCS: Japan. Inventory of Existing & New Chemical Substances (ENCS), as amended through July 30, 2015

CAS RN: 91-20-3, Name: Naphthalene (en-US), Japanese ENCS Number: (4)-311

Molecular formula: C10H8

Japan. Type II Monitoring Chemical Substances (as amended through March 22, 2011 - REPEALED as of April 1, 2011)

CAS RN: 91-20-3

Name: Naphthalene, Japanese ENCS Number: (4)-311

Note(s): jx24, Added March 19, 2010.

Japan. Type III Monitoring Chemical Substances (as amended through March 22, 2011 - REPEALED as of April 1, 2011)

CAS RN: 91-20-3, Name: Naphthalene

ENCS No.: (4)-311, Note(s): jm3_7 Gazetted March 19, 2010.

Japan. Biodegradation and Bioconcentration of the Existing Chemical Substances under the Chemical Substances Control Law, as amended through August 12, 2008

CAS RN: 91-20-3, Name: Naphthalene

Japanese ENCS Number: (4)-311

Category(s): jx9, Pulished Date: December 20, 1979

Notes jx9

Chemical substance judged non-decomposable/low-concentrate

Japan. Industrial Safety & Health Law (ISHL) Inventory(as amended through March 25, 2016)

CAS RN: 91-20-3

Name: Naphthalene (en-US)

Japanese ENCS Number: (4)-311

Japanese ISHL Number: (4)-311

Molecular formula: C10H8

Note(s): iencs, Grandfathered onto ISHL from ENCS according to the Chemical Substance Control Law ('Kashinho').

KECI: Korea. Existing Chemicals Inventory (KECI, January 27, 2015, amended through MoE 2016-15, January 19, 2016)

CAS RN: 91-20-3, Name: Naphthalene

Korean ID Number: KE-25545

Molecular formula: C10H8TSCA:

U.S. Federal, TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR) (40 CFR 712, Subpt. B)

CAS RN: 91-20-3

Name: NAPHTHALENE

Note(s): p41, 40 CFR 712.30. Final rule at 60 Fed. Reg. 34879 (7/5/95); correction at 60 Fed. Reg. 37945 (7/25/95). The EPA added 24 chemicals, recommended for testing by the ITC in its 35th Report, to the Preliminary Assessment Information Rule (PAIR). Effective date 8/4/95; reporting date 10/3/95.

TSCA Section 8(a) Inventory Update Rule (IUR): Subject to a Special Regulatory Action under TSCA (2002 EPA Instructions, App. B)

CAS RN: 91-20-3

Name: Naphthalene

TSCA Section 8(d) Health & Safety Data Reporting (40 CFR 716, Subpt. B)

CAS RN: 91-20-3

Name: NAPHTHALENE

Listed in 40 CFR 716.120: (a)

Effective date: 06/01/87

Sunset date: 06/01/97

TSCA High Production Volume (HPV) Chemicals: 1990, 1994 & Post-1994 Additions (01/20/06)

CAS RN: 91-20-3

Name: NAPHTHALENE

1990 HPV Challenge Program Chemical

HPV Indicator Value (see notes): 2

HPV Sponsorship Value (see notes): N

Notes 2 Chemical is otherwise being handled under the Organisation for Economic Co-operation and Development (OECD) Screening Information Data Sheet (SIDS) Program. This chemical may be sponsored, however.

N Not Sponsored

TSCA Work Plan Chemicals under the EPA Existing Chemicals Management Program (October 23, 2014)

CAS RN: 91-20-3

Name: Naphthalene

Hazard Score: 3, Exposure Score: 3

Persistence & Bioaccumulation Score: 1.

15.1.2. National regulations

Germany

17/10/2017

EN (English)

12/14

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VwVwS Annex reference	: Water hazard class (WGK) 2, significant hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Abbreviations and acronyms:

	CAS (Chemical Abstracts Service) number
	EC - European Community
	OSHA - Occupational Safety and Health Administration
	PBT - Persistent, Bioaccumulative and Toxic substance
	vPvB - Very Persistent and Very Bioaccumulative
	TLV- Threshold Limit Value
	TSCA - Toxic Substance Control
	TWA- Time Weighted Average
LC50	Median lethal concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

Other information	: It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. Such information is actually to be best of our knowledge and believes accurate as reliable.
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Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
Carc. 2	H351	
STOT SE 3	H336	
Asp. Tox. 1	H304	
Aquatic Chronic 2	H411	

SDS EU (REACH Annex II)

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