SAFETY DATA SHEET

lead substitute + octane booster

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

1.1. Product identifier

Trade name

5in1 lead substitute + octane booster

Product no.

687050

Unique formula identifier (UFI)

9ASC-QYFK-1104-6KNC

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

Relevant identified uses of the substance or mixture

Additive

Use descriptors (REACH)

Product category	Description
	Additives to petrol or diesel fuel

Uses advised against

No special.

1.3. Details of the supplier of the safety data sheet

Company and address

Maumo International BV
P.O. box 441
2990 AK Barendrecht
Netherlands
+31 (0)180 699234
+31 (0)180 699235
www.maumo.nl

Contact person

Product Safety Department

E-mail

info@maumo.nl

Revision

10/09/2022

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.
Eye Irrit. 2; H319, Causes serious eye irritation.
Carc. 2; H351, Suspected of causing cancer.

Repr. 1B; H360, May damage fertility or the unborn child.
Aquatic Chronic 2; H411, Toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)
Causes serious eye irritation. (H319)
Suspected of causing cancer. (H351)
May damage fertility or the unborn child. (H360)
Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s)

General

Keep out of reach of children. (P102)

Prevention

Obtain special instructions before use. (P201)
Wear eye protection/protective gloves/protective clothing. (P280)

Response

IF exposed or concerned: Get medical advice/attention. (P308+P313)
IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)

Storage

-

Disposal

Dispose of contents/container to an approved waste disposal plant. (P501)

Hazardous substances

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;
Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Ferrocene

Additional labelling

Restricted to professional users.

2.3. Other hazards

Additional warnings

This product contains a vPvB and/or PBT substance:
Hydrocarbons, C10-C13, aromatics, >1% naphthalene (PBT)
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS No.: EC No.: 918-481-9 UK-REACH:	80-95%	EUH066 Asp. Tox. 1, H304	

	Index No.:			
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified;	CAS No.: 64742-94-5 EC No.: 265-198-5 UK-REACH: Index No.: 649-424-00-3	10-15%	Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411	
Hydrocarbons, C10-C13, aromatics, >1% naphthalene	CAS No.: EC No.: 926-273-4 UK-REACH: Index No.:	3-5%	EUH066 Asp. Tox. 1, H304 Carc. 2, H351 Aquatic Chronic 2, H411	
Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate	CAS No.: 7491-09-0 EC No.: 231-308-5 UK-REACH: Index No.:	3-5%	Skin Irrit. 2, H315 Eye Dam. 1, H318	
naphthalene	CAS No.: 91-20-3 EC No.: 202-049-5 UK-REACH: Index No.: 601-052-00-2	1-3%	Flam. Sol. 2, H228 Acute Tox. 4, H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS No.: 64742-47-8 EC No.: 926-141-6 UK-REACH: Index No.:	1-3%	EUH066 Asp. Tox. 1, H304	
Ferrocene	CAS No.: 102-54-5 EC No.: 203-039-3 UK-REACH: Index No.:	<1%	Flam. Sol. 1, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Repr. 1B, H360 STOT RE 2, H373 Aquatic Chronic 1, H410 (M=10)	
1,2,4-trimethylbenzene	CAS No.: 95-63-6 EC No.: 202-436-9 UK-REACH: Index No.: 601-043-00-3	<1%	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 Aquatic Chronic 2, H411	[1]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER/doctor.
Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

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

Headache, Methaemoglobinaemia (naphthalene)
This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned:
Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Sulphur oxides
Carbon oxides (CO / CO2)
Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Keep only in original packaging.

Storage temperature

Dry, cool and well ventilated

Store out of direct sunlight.

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

—

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

Long term exposure limit (8 hours) (ppm): 184

Long term exposure limit (8 hours) (mg/m³): 1200

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

1,2,4-trimethylbenzene

Duration	Route of exposure	DNEL

Long term – Systemic effects - General population	Dermal	9512 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	16171 mg/kg bw/day
Long term – Local effects - General population	Inhalation	29.4 mg/m³
Long term – Local effects - Workers	Inhalation	100 mg/m³
Long term – Systemic effects - General population	Inhalation	29.4 mg/m³
Long term – Systemic effects - Workers	Inhalation	100 mg/m³
Short term – Local effects - General population	Inhalation	29.4 mg/m³
Short term – Local effects - Workers	Inhalation	100 mg/m³
Short term – Systemic effects - General population	Inhalation	29.4 mg/m³
Short term – Systemic effects - Workers	Inhalation	100 mg/m³
Long term – Systemic effects - General population	Oral	15 mg/kg bw/day

Ferrocene

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	0,013 mg/kgbw/day
Long term – Systemic effects - Workers	Dermal	0,025 mg/kgbw/day
Long term – Systemic effects - General population	Inhalation	0,005 mg/m³
Long term – Systemic effects - Workers	Inhalation	0,02 mg/m³
Short term – Systemic effects - Workers	Inhalation	0,04 mg/m³
Long term – Systemic effects - General population	Oral	0,013 mg/kgbw/day

naphthalene

Duration	Route of exposure	DNEL
Long term – Systemic effects - Workers	Dermal	3,57 mg/kgbw/day
Long term – Systemic effects - Workers	Inhalation	25 mg/m³

Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate

Duration	Route of exposure	DNEL
	Dermal	13,4 mg/kgbw/day
	Inhalation	46,6 mg/m³

PNEC

1,2,4-trimethylbenzene

Route of exposure	Duration of Exposure	PNEC
Freshwater		120 µg/L
Freshwater sediment		13.56 mg/kg
Intermittent release (freshwater)		120 µg/L

Marine water	120 µg/L
Marine water sediment	13.56 mg/kg
Sewage treatment plant	2.41 mg/L
Soil	2.34 mg/kg

naphthalene

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,0024 mg/L
Marine water		0,0024 mg/L

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Do not recirculate outlet air that contain the substances.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
No special when used as intended.			

Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,38	> 240	EN374-2, EN374-3, EN388	

Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Orange

Odour / Odour threshold
Solvent

pH
No data available

Density (g/cm³)
0.893 (20 °C)

Kinematic viscosity
No data available

Particle characteristics
Not applicable - product is a liquid

Phase changes

Melting point/Freezing point (°C)
No data available

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

Boiling point (°C)
160-220

Vapour pressure
10 hPa (20 °C)

Relative vapour density
No data available

Decomposition temperature (°C)
No data available

Data on fire and explosion hazards

Flash point (°C)
>61

Ignition (°C)
No data available

Auto flammability (°C)
No data available

Lower and upper explosion limit (% v/v)
0.6 - 7

Solubility

Solubility in water
Insoluble

n-octanol/water coefficient
No data available

Solubility in fat (g/L)
No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100)

No data available

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions

No special.

10.4. Conditions to avoid

No special.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	>5000 mg/m³
Other information	

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>5000 mg/kg
Other information	

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	OECD 402
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>5000 mg/kg
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	OECD 403

Species	Rat
Route of exposure	Inhalation
Test	LC50 (dust)
Result	>4778 mg/m³
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>4688 mg/m³
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	OECD 402
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	6318 mg/kg
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	7050 mg/kg
Other information	

Product/substance	naphthalene
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>0,4 mg/L
Other information	

Product/substance	naphthalene
Test method	OECD 402
Species	Rat
Route of exposure	Dermal
Test	LD50

Result	>16000 mg/kg
Other information	

Product/substance	naphthalene
Test method	OECD 401
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	533 mg/kg
Other information	

Product/substance	Ferrocene
Test method	OECD 402
Species	Rat, male/female
Route of exposure	Dermal
Test	LD50
Result	>3000 mg/kg
Other information	

Product/substance	Ferrocene
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1320 mg/kg
Other information	

Product/substance	1,2,4-trimethylbenzene
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	10200 mg/m³
Other information	

Product/substance	1,2,4-trimethylbenzene
Test method	
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>3440 mg/kg
Other information	

Skin corrosion/irritation

Product/substance	1,2,4-trimethylbenzene
Test method	
Species	Rabbit
Duration	
Result	Adverse effect observed (Irritating)
Other information	

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

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

Germ cell mutagenicity

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

Carcinogenicity

Product/substance	naphthalene
Test method	
Species	Rat
Route of exposure	Inhalation
Target organ	
Duration	24 months
Test	NOAEL
Result	
Conclusion	Adverse effect observed
Other information	

Suspected of causing cancer.

Reproductive toxicity

Product/substance	Ferrocene
Test method	OECD 421
Species	Rat, male/female
Duration	
Test	
Result	25 mg/kg
Conclusion	Adverse effect observed
Other information	

May damage fertility or the unborn child.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.
Reproductive toxicity: This product contains teratogenic substances, which may produce anomalies and/or developmental defects to the human offspring. Adverse effects include: death, growth retardation, congenital disorders, delayed mental development, and functional disorders. This product contains reprotoxic substances, which may harm the reproductive capacity. Adverse effects include: sterility, effects on the sexual function, lowered effective fertility and dysfunctional menstrual cycle.
Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

No special.

Other information

naphthalene has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EL0
Result	1000 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	
Duration	96 hours
Test	LL0
Result	1000 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	EL0
Result	1000 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	EL50
Result	>1 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EL50
Result	1,4 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	
Duration	96 hours
Test	LL50
Result	2-5 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	21 days
Test	NOELR
Result	0,48 mg/L
Other information	

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	NOELR
Result	1 mg/L
Other information	

Product/substance	naphthalene
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	96 hours
Test	EC50
Result	2,96 mg/L
Other information	

Product/substance	naphthalene
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	2,16 mg/L
Other information	

Product/substance	naphthalene
Test method	
Species	Fish, Oncorhynchus gorbuscha
Compartment	
Duration	96 hours
Test	LC50

Result	0,96 mg/L
Other information	

Product/substance	naphthalene
Test method	
Species	Daphnia, Daphnia pulex
Compartment	
Duration	125 days
Test	NOEC
Result	0,59 mg/L
Other information	

Product/substance	naphthalene
Test method	
Species	Fish, Oncorhynchus gorbuscha
Compartment	
Duration	40 days
Test	NOEC
Result	0,12 mg/L
Other information	

Product/substance	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Daphnia, Daphnia magna
Compartment	
Duration	48 hours
Test	EL0
Result	1000 mg/L
Other information	

Product/substance	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	
Duration	96 hours
Test	LL0
Result	1000 mg/L
Other information	

Product/substance	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	EL0
Result	1000 mg/L
Other information	

Product/substance	1,2,4-trimethylbenzene
Test method	
Species	Daphnia, Daphnia magna

Compartment	
Duration	48 hours
Test	LC50
Result	3,6 mg/L
Other information	

Product/substance	1,2,4-trimethylbenzene
Test method	
Species	Fish, Pimephales promelas
Compartment	
Duration	96 hours
Test	LC50
Result	7,72 mg/L
Other information	

12.2. Persistence and degradability

Product/substance	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics
Biodegradable	Yes
Test method	OECD 301 F
Result	>60%

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Biodegradable	Yes
Test method	OECD 301 F
Result	58,6% - 28 days

Product/substance	Potassium 1,2-bis(2-ethylhexyloxycarbonyl)ethanesulphonate
Biodegradable	Yes
Test method	
Result	

Product/substance	naphthalene
Biodegradable	No
Test method	
Result	0 to 2 % - Not readily - 28 days

Product/substance	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
Biodegradable	Yes
Test method	
Result	

12.3. Bioaccumulative potential

Product/substance	Hydrocarbons, C10-C13, aromatics, >1% naphthalene
Test method	
Potential bioaccumulation	Yes
LogPow	2,8-6,5
BCF	99-5780
Other information	

Product/substance	naphthalene
Test method	
Potential bioaccumulation	No data available.
LogPow	36.5-168
BCF	3,4
Other information	

Product/substance	1,2,4-trimethylbenzene
Test method	
Potential bioaccumulation	No data available.
LogPow	3,63
BCF	243
Other information	

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains a vPvB and/or PBT substance:
Hydrocarbons, C10-C13, aromatics, >1% naphthalene (PBT)

12.6. Endocrine disrupting properties

No special.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 7 – Carcinogenic
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

13 07 03* Other fuels (including mixtures)

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6	III	Yes	Limited quantities: 5 L Tunnel restriction code: (-)

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
						See below for additional information.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6 	III	Yes	Limited quantities: 5 L EmS: F-A S-F See below for additional information.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Class: 9 Labels: 9 Classification code: M6 	III	Yes	See below for additional information.

* Packing group
** Environmental hazards

Additional information

These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

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ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See the Dangerous Goods List, section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes

Additional information

Tactile warning.

Sources

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
H226, Flammable liquid and vapour.
H228, Flammable solid.
H302, Harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
H315, Causes skin irritation.
H318, Causes serious eye damage.
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.
H360, May damage fertility or the unborn child.
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.
H411, Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

= Additives to petrol or diesel fuel

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Maumo

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en