SAFETY DATA SHEET

CFS Formula 105

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name: CFS Formula 105

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

Relevant identified uses of the substance or mixture: Fuels

Uses advised against : None known.

1.3. Details of the supplier of the safety data sheet

Company and address:

Anglo American Oil Company Ltd
58 Holton Road
Holton Heath Trading Park
Poole
BH16 6LT Dorset
England
Tel: +44 01929 551557
Fax: +44 01929 551567
www.aaoil.co.uk

E-mail: racing@aaoil.co.uk

Revision: 19/01/2023

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

Flam. Liq. 1; H224, Extremely flammable liquid and vapour.
Asp. Tox. 1; H304, May be fatal if swallowed and enters airways.
Skin Irrit. 2; H315, Causes skin irritation.
STOT SE 3; H336, May cause drowsiness or dizziness.
Muta. 1B; H340, May cause genetic defects.
Carc. 1B; H350, May cause cancer.
Repr. 2; H361, Suspected of damaging fertility or the unborn child.
STOT RE 2; H373, May cause damage to organs through prolonged or repeated exposure.
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):

Extremely flammable liquid and vapour. (H224)
May be fatal if swallowed and enters airways. (H304)
Causes skin irritation. (H315)
May cause drowsiness or dizziness. (H336)
May cause genetic defects. (H340)
May cause cancer. (H350)
Suspected of damaging fertility or the unborn child. (H361)
May cause damage to organs through prolonged or repeated exposure. (H373)
Toxic to aquatic life with long lasting effects. (H411)

Safety statement(s):

General:

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

Prevention:

Wear eye protection/protective gloves/protective clothing. (P280)
Wash hands and exposed skin thoroughly after handling. (P264)

Response:

IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
Do NOT induce vomiting. (P331)

Storage: -

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

Low boiling point naphtha - unspecified
Naphtha (petroleum), light alkylate
Naphtha (petroleum), isomerization
toluene

Additional labelling:

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.
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

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Low boiling point naphtha - unspecified	CAS No.: 86290-81-5 EC No.: 289-220-8 UK-REACH: 01-2119471335-39-XXXX Index No.: 649-378-00-4	25-40%	Asp. Tox. 1, H304 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 Aquatic Chronic 2, H411	[10]
Naphtha (petroleum), light alkylate	CAS No.: 64741-66-8 EC No.: 265-068-8 UK-REACH: Index No.: 649-276-00-X	25-40%	Flam. Liq. 1, H224 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Muta. 1B, H340 Carc. 1B, H350 Aquatic Chronic 2, H411	[19]
Naphtha (petroleum), isomerization	CAS No.: 64741-70-4 EC No.: 265-073-5 UK-REACH: Index No.: 649-277-00-5	15-25%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361 Aquatic Chronic 2, H411	[19]
toluene	CAS No.: 108-88-3 EC No.: 203-625-9 UK-REACH: 01-2119471310-51-XXXX Index No.: 601-021-00-3	15-25%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	[1], [3]
Tetraethyllead	CAS No.: 78-00-2 EC No.: 201-075-4 UK-REACH: 01-2119622080-57-XXXX Index No.:	<0.1%	Acute Tox. 2, H300 Acute Tox. 1, H310 Acute Tox. 2, H330 Repr. 1A, H360 STOT RE 2, H373 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[2], [3], [4], [5]
1,2-dibromoethane	CAS No.: 106-93-4 EC No.: 203-444-5 UK-REACH: Index No.: 602-010-00-6	<0.1%	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331 STOT SE 3, H335 Carc. 1B, H350	[1], [4]

			Aquatic Chronic 2, H411	
benzene	CAS No.: 71-43-2 EC No.: 200-753-7 UK-REACH: Index No.: 601-020-00-8	<0.05%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372	[1], [3], [4]

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.
[2] Substance is on the list of substances subject to authorization under the UK REACH Regulations (Annex XIV).
[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.
[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).
[5] Substance is included in the Candidate List of substances of very high concern (SVHC).
[10] The classification as a carcinogen / mutagen will not be taken into account as the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7) (CLP, Annex VI, note J).
[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

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 and open eyes widely. Flush eyes with

	water or saline water (20-30 °C) for at least 5 minutes. Seek medical assistance and 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:	Rinse with water until pain stops then continue to rinse for 30 minutes.

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

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

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:
Carbon oxides (CO / CO2)

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.
Hazchem Code: 3YE

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.
Avoid inhalation of vapours from spilled material.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth 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

Ground and bond container and receiving equipment.
Use explosion-proof [electrical/lighting/ventilating] equipment.
Use non-sparking tools.
Take action to prevent static discharges.
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.
Take action to prevent static discharges.
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material:	Keep only in original packaging. Stainless steel
Storage temperature:	Dry, cool and well ventilated Keep away from sources of ignition. Keep container tightly closed. Keep away from direct sunlight. Prevent build-up of electrostatic charge in the immediate area. Room temperature 15 to 25°C
Incompatible materials:	Strong oxidizing 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

toluene
Long term exposure limit (8 hours) (ppm): 50
Long term exposure limit (8 hours) (mg/m³): 191
Short term exposure limit (15 minutes) (ppm): 100
Short term exposure limit (15 minutes) (mg/m³): 384
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

1,2-dibromoethane
Long term exposure limit (8 hours) (ppm): 0,5
Long term exposure limit (8 hours) (mg/m³): 3,9
Annotations:
Carc = Capable of causing cancer and/or heritable genetic damage.
Sk = Can be absorbed through the skin and lead to systemic toxicity.

benzene
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m³): 3,25
Annotations:
Carc = Capable of causing cancer and/or heritable genetic damage.
Sk = Can be absorbed through the skin and lead to systemic toxicity.

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

benzene

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Inhalation	140 µg/m³
Long term – Systemic effects - Workers	Inhalation	800 µg/m³

Low boiling point naphtha - unspecified

Duration	Route of exposure	DNEL
Long term – Local effects - General population	Inhalation	178.57 mg/m³
Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - General population	Inhalation	410 µg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Short term – Local effects - General population	Inhalation	640 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - General population	Inhalation	1152 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³

Naphtha (petroleum), isomerization

Duration	Route of exposure	DNEL
Long term – Local effects - General population	Inhalation	178.57 mg/m³

Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - General population	Inhalation	410 µg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Short term – Local effects - General population	Inhalation	640 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - General population	Inhalation	1152 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³

Naphtha (petroleum), light alkylate

Duration	**Route of exposure**	**DNEL**
Long term – Systemic effects - General population	Dermal	699 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	773 mg/kg bw/day
Long term – Local effects - General population	Inhalation	178.57 mg/m³
Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - General population	Inhalation	410 µg/m³
Long term – Systemic effects - General population	Inhalation	608 mg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Long term – Systemic effects - Workers	Inhalation	2035 mg/m³
Short term – Local effects - General population	Inhalation	640 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - General population	Inhalation	1152 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³
Long term – Systemic effects - General population	Oral	699 mg/kg bw/day

Tetraethyllead

Duration	**Route of exposure**	**DNEL**
Long term – Systemic effects - Workers	Dermal	670 ng/kgbw/day
Short term – Systemic effects - Workers	Dermal	3.13 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	80 µg/m³
Long term – Systemic effects - Workers	Inhalation	160 µg/m³
Short term – Systemic effects - General population	Inhalation	340 µg/m³
Short term – Systemic effects - Workers	Inhalation	681 µg/m³

toluene

Duration	**Route of exposure**	**DNEL**
Long term – Systemic effects - Workers	Dermal	384 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	192 mg/m³

Long term – Systemic effects - Workers	Inhalation	192 mg/m³
Short term – Local effects - Workers	Inhalation	384 mg/m³
Short term – Systemic effects - Workers	Inhalation	384 mg/m³

PNEC

benzene

Route of exposure	**Duration of Exposure**	**PNEC**
Freshwater		80 µg/L
Freshwater sediment		1.36 mg/kg
Intermittent release (freshwater)		53 µg/L
Intermittent release (marine water)		5.3 µg/L
Marine water		8 µg/L
Marine water sediment		136 µg/kg
Sewage treatment plant		39 mg/L
Soil		225 µg/kg

Tetraethyllead

Route of exposure	**Duration of Exposure**	**PNEC**
Freshwater		27 ng/L
Intermittent release (freshwater)		270 ng/L
Marine water		2.7 ng/L
Predators		600 ng/kg
Sewage treatment plant		500 ng/L
Soil		930 ng/kg

toluene

Route of exposure	**Duration of Exposure**	**PNEC**
Freshwater		74-680 µg/L
Freshwater sediment		1.78-16.39 mg/kg
Intermittent release (freshwater)		37.8-680 µg/L
Intermittent release (marine water)		3.78 µg/L
Marine water		7.4-680 µg/L
Marine water sediment		178-16390 µg/kg
Sewage treatment plant		840-13610 µg/L
Soil		313-2890 µg/kg

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: Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure: Keep damming materials near the workplace. If possible, collect spillage during work.

8.3. Individual protection measures, such as personal protective equipment

Generally: Use only UKCA marked protective equipment.

Respiratory Equipment:

Work situation	Type	Class	Colour	Standards	
In case of inadequate ventilation	Self contained breathing apparatus			EN137, EN139	

Skin protection:

Recommended	Type/Category	Standards	
Solvent resistant	Antistatic	EN 1149	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0.4	> 480	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: Blue

Odour / Odour threshold: Characteristic

pH: Testing not relevant or not possible due to the nature of the product.

Density (g/cm³):	Testing not relevant or not possible due to the nature of the product.
Kinematic viscosity:	Testing not relevant or not possible due to the nature of the product.
Particle characteristics:	Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):	Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C):	Does not apply to liquids.
Boiling point (°C):	38
Vapour pressure:	Testing not relevant or not possible due to the nature of the product.
Relative vapour density:	Testing not relevant or not possible due to the nature of the product.
Decomposition temperature (°C):	Testing not relevant or not possible due to the nature of the product.

Data on fire and explosion hazards

Flash point (°C):	-40
Ignition (°C):	Testing not relevant or not possible due to the nature of the product.
Auto flammability (°C):	Testing not relevant or not possible due to the nature of the product.
Lower and upper explosion limit (% v/v):	Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water:	Testing not relevant or not possible due to the nature of the product.
n-octanol/water coefficient:	Testing not relevant or not possible due to the nature of the product.
Solubility in fat (g/L):	Testing not relevant or not possible due to the nature of the product.

9.2. Other information

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
None known.

10.4. Conditions to avoid
Avoid static electricity.
Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials
Strong oxidizing 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 as retained and amended in UK law

Acute toxicity

Product/substance	toluene
Test method	OECD 401
Species	Rat, male
Route of exposure	Oral
Test	LD50
Result	5580 mg/kg
Other information	

Product/substance	toluene
Test method	OECD 403
Species	Rat, male/female
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	28.1 mg/L
Other information	

Product/substance	toluene
Test method	OECD 403
Species	Rat, male
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	25.7 mg/L
Other information	

Product/substance	toluene
Test method	OECD 403
Species	Rat, female
Route of exposure	Inhalation
Test	LC50 (4 hours)
Result	30 mg/L
Other information	

Product/substance	toluene
Test method	
Species	Rabbit, male
Route of exposure	Dermal
Test	LD50
Result	>5000 mg/kg

Other information

Product/substance	Tetraethyllead
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	850 mg/L
Other information	

Product/substance	benzene
Test method	
Species	Mouse
Route of exposure	Oral
Test	LD50
Result	1440 mg/kg
Other information	

Product/substance	benzene
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	930 mg/kg
Other information	

Product/substance	benzene
Test method	
Species	Mouse
Route of exposure	Dermal
Test	LD50
Result	48 mg/kg
Other information	

Skin corrosion/irritation

Product/substance	toluene
Test method	OECD 404
Species	Rabbit
Duration	
Result	Adverse effect observed (Slightly irritating)
Other information	

Causes skin irritation.

Serious eye damage/irritation

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

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

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

Product/substance	toluene
Test method	
Species	
Route of exposure	Inhalation
Target organ	Central nervous system
Duration	
Test	
Result	
Conclusion	Adverse effect observed
Other information	

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

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

None known.

Other information

toluene has been classified by IARC as a group 3 carcinogen.
1,2-dibromoethane has been classified by IARC as a group 2A carcinogen.
benzene has been classified by IARC as a group 1 carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Product/substance	toluene
Test method	
Species	Fish, Oncorhynchus mykiss
Compartment	
Duration	96 hours

Test	LC50
Result	5.5 mg/L
Other information	

Product/substance	toluene
Test method	
Species	Daphnia, Ceriodaphnia dubia
Compartment	
Duration	48 hours
Test	LC50
Result	3.78 mg/L
Other information	

Product/substance	toluene
Test method	
Species	Algae
Compartment	
Duration	3 hours
Test	EC50
Result	134 mg/L
Other information	

Product/substance	toluene
Test method	
Species	Bacteria
Compartment	
Duration	24 hours
Test	EC50
Result	84 mg/L
Other information	

Product/substance	Tetraethyllead
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	0.23 mg/L
Other information	

12.2. Persistence and degradability
No data available.

12.3. Bioaccumulative potential
No data available.

12.4. Mobility in soil
No data available.

12.5. Results of PBT and vPvB assessment
This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties
None known.

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

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 7 – Carcinogenic
HP 10 – Toxic for reproduction
HP 11 – Mutagenic
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 02* Petrol

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	UN1203	GASOLINE	Class: 3 Labels: 3 Classification code: F1  	II	Yes	Limited quantities: 1 L Tunnel restriction code: (D/E) See below for additional information.
IMDG	UN1203	GASOLINE	Class: 3 Labels: 3 Classification code: F1	II	Yes	Limited quantities: 1 L EmS: F-E S-E See below for additional information.

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
						
IATA	UN1203	GASOLINE	Class: 3 Labels: 3 Classification code: F1 	II	Yes	See below for additional information.

* Packing group

** Environmental hazards

Additional information

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 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.
Hazchem Code: 3YE

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:	P5a - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 10 tonnes / (upper-tier): 50 tonnes E2 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 200 tonnes / (upper-tier): 500 tonnes Tetraethyllead 1,2-dibromoethane
Regulation on drug precursors:	toluene is included (Category 3)

UK-REACH, Annex XVII

toluene is subject to restrictions, UK-REACH annex XVII (entry 48).
Tetraethyllead is subject to restrictions, UK-REACH annex XVII (entry 63).
benzene is subject to restrictions, UK-REACH annex XVII (entry 05).

Additional information:	Tactile warning. If this product is sold in retail, it must be delivered with child-resistant fastening.
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 649/2012 concerning the export and import of hazardous chemicals as retained and amended in UK law. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. The Controlled Drugs (Drug Precursors) Regulations 2008. 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

H224, Extremely flammable liquid and vapour.
H225, Highly flammable liquid and vapour.

H300, Fatal if swallowed.
H301, Toxic if swallowed.
H304, May be fatal if swallowed and enters airways.
H310, Fatal in contact with skin.
H311, Toxic in contact with skin.
H315, Causes skin irritation.
H319, Causes serious eye irritation.
H330, Fatal if inhaled.
H331, Toxic if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H340, May cause genetic defects.
H350, May cause cancer.
H360, May damage fertility or the unborn child.
H361, Suspected of damaging fertility or the unborn child.
H361d, Suspected of damaging the unborn child.
H372, Causes damage to organs through prolonged or repeated exposure.
H373, May cause damage to organs through prolonged or repeated exposure.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

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 classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Ricky Kirby

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