



Safety Data Sheet

bluechem
GROUP

According to the Model WHS Regulations and the ADG code

Diesel System Super Clean

Revision date: 11.04.2017

Product code: 1901

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

1.1. Product identifier

Diesel System Super Clean

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

Use of the substance/mixture

Cleaning agent for Diesel Systems

1.3. Details of the supplier of the safety data sheet

Company name: Bluechem Australia
Street: Unit 2, 102-110 NORTH VIEW DRIVE
Place: 3020 SUNSHINE, VICTORIA, AUSTRALIA
Telephone: (03) 9311 4456 Telefax: (03) 9311 7712
e-mail: admin@bluechemaustralia.com.au
Contact person: Neil Cochrane
Internet: www.bluechemaustralia.com.au

1.4. Emergency telephone number:

Emergency 24 HOUR: Neil Cochrane (03) 9311 4456 or 0498 880 115

Further Information

Article Number: 33398

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS CHEMICAL ACCORDING TO SAFE WORK AUSTRALIA AND WHS CRITERIA.
CLASSIFIED AS DANGEROUS GOODS ACCORDING TO THE ADG CODE.
POISON SCHEDULE: 5

Classification according to WHS

Hazard categories:
Flammable liquid: Flam. Liq. 3
Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Specific target organ toxicity - single exposure: STOT SE 3
Specific target organ toxicity - repeated exposure: STOT RE 1
Aspiration hazard: Asp. Tox. 1
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Flammable liquid and vapour.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to WHS

Component(s) to be indicated on the label

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Aliphatic Hydrocarbons > 60 %
Aromatic Hydrocarbons 10 -< 30 %
Benzenesulfonic acid 1 -< 5 %
2-ethyl-hexanol 10 -< 30 %
2-ethyl-hexyl-nitrate < 10 %

Signal word: Danger

Pictograms:



flame - exclamation mark - health hazard

Hazard statements

H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of this material and its container to hazardous or special waste collection point.

2.3. Other hazards

No information available.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Surface tension compounds
Detergents, Dispersants
Synthetic agent combinations
corrosion preventing agent
Multifunction Diesel Fuel Additive

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to WHS criteria			
64742-82-1	Distillates (petroleum, gasoline), hydrotreated light			> 60 %
	919-164-8		01-2119473977-17	
	STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H372 H304 H412 AUH066			
1330-20-7	xylene			10 -< 30 %
	215-535-7		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304			
104-76-7	2-ethyl-hexanol			10 -< 30 %
	203-234-3		01-2119487289-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3; H332 H315 H319 H335			
27247-96-7	2-Ethyl hexyl nitrate			5 - < 10 %
	248-363-6		01-2119539586-27	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H302 H312 H332 H411 AUH044 AUH066			
70024-69-0	Benzenesulfonic acid, mono-C20-24- alkyl derivs., calcium salts			1 - < 5 %
	274-263-7		01-2119492616-28	
	Eye Irrit. 2A; H319			
108-88-3	toluene			< 1 %
	203-625-9		01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361 H315 H336 H373 H304			
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene			< 1 %
	919-284-0		01-2119463588-24	
	Carc. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H351 H336 H304 H411			
37205-87-1	isononylphenole, ethoxylised			< 1 %
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 2; H302 H318 H411			

Full text of H and AUH phrases: see section 16

Further Information

According to note P to labelling (Australian Hazardous Substances Information System (HSIS)), "Solvent naphta (petroleum)" is not to be classified as "carcinogenic" or "mutagen" ingredient because a benzene content (EINECS No. 200-753-7) is below 0.1 % by weight.



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SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .
Subsequently wash off with: Water and soap.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Consult physician.

After ingestion

Let water be drunken in little sips (dilution effect). Consult physician.

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

Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.
After ingestion: Harmful: may cause lung damage if swallowed.

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

Warning about danger of aspiration.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder.
Sand.
Carbon dioxide (CO₂).
alcohol resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

HAZCHEM: .3Y

Additional information

Cool endangered container in case of fire.
Beat down gas/vapours/mist with water spray.
Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear a self-contained breathing apparatus and chemical resistant suit.
Keep away from sources of ignition. - No smoking.

6.2. Environmental precautions

Beat down gas/vapours/mist with water spray.
Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).



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Prevent spread over a wide area (e.g. by containment or oil barriers).

6.4. Reference to other sections

Information for safe handling look up chapter 7.

Information for personal protective equipment look up chapter 8.

Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

The substance should only be handled in closed apparatus or systems. Vapours / aerosols must be extracted by suction immediately at point of origin.

Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL) - Australia

CAS No	Substance	ppm	mg/m ³	Category
	Xylene (o-,m-,p)	80	350	TWA
	Xylene (o-,m-,p)	150	655	STEL
108-88-3	Toluene	10	191	TWA
108-88-3	Toluene	150	574	STEL

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid	650 mmol/mol	urine	Post shift

8.2. Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

Keep away from food, drink and animal feeding stuffs.

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When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Eye/face protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer (Viton)). (EN374)

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation.
In case of fire: Wear self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	yellow, transparent
Odour:	aromatic

Test method

Changes in the physical state

Initial boiling point and boiling range:	200 - 210 °C
Flash point:	54,5 °C
Lower explosion limits:	> 0,6 vol. %
Upper explosion limits:	> 7,0 vol. %
Ignition temperature:	> 200 °C
Vapour pressure: (at 20 °C)	> 8 hPa
Density (at 20 °C):	0.820 - 0.850 g/cm ³
Water solubility: (at 20 °C)	insoluble

Solubility in other solvents

Organic solvents

9.2. Other information

No data

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

No dangerous reactions are known.

10.4. Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.
No decomposition when used as intended.

10.5. Incompatible materials

Oxidizing agents.

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acid, concentrated.
Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (inhalative aerosol) 4,545 mg/l

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
64742-82-1	Distillates (petroleum, gasoline), hydrotreated light			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >3400 mg/kg	Rabbit	
1330-20-7	xylene			
	oral	LD50 4300 mg/kg	Rat	
	dermal	LD50 3200 mg/kg	Rabbit	
	inhalative (4 h) vapour	LC50 21,7 mg/l	Rat	
	inhalative aerosol	ATE 1,5 mg/l		
104-76-7	2-ethyl-hexanol			
	oral	LD50 2047 mg/kg	Rat	
	dermal	LD50 >3000 mg/kg	Rat	
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
27247-96-7	2-Ethyl hexyl nitrate			
	oral	LD50 >9640 mg/kg	Rat	
	dermal	LD50 >4820 mg/kg	Rabbit	
	inhalative vapour	ATE 11 mg/l		
	inhalative aerosol	ATE 1,5 mg/l		
70024-69-0	Benzenesulfonic acid, mono-C20-24- alkyl derivs., calcium salts			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
108-88-3	toluene			
	dermal	LD50 12200 mg/kg	Rabbit	GESTIS
	inhalative (4 h) vapour	LC50 49 mg/l	Rat	GESTIS
37205-87-1	isononylphenole, ethoxylised			
	oral	LD50 2000 mg/kg	Rat	

Irritation and corrosivity

After skin contact: Frequently or prolonged contact with skin may cause dermal irritation.
Irritation of eyes: Irritant effect possible.

Sensitising effects

no danger of sensitization.

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SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name		Dose	[h] [d]	Species	Source
64742-82-1	Distillates (petroleum, gasoline), hydrotreated light					
	Acute fish toxicity	LC50	10-100 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	50-100 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	10-22 mg/l	48 h	Daphnia magna	
1330-20-7	xylene					
	Acute fish toxicity	LC50	26,7 mg/l	96 h	Pimephales promelas	
104-76-7	2-ethyl-hexanol					
	Acute fish toxicity	LC50	17,1 mg/l	96 h	Leuciscus idus	
	Acute algae toxicity	ErC50	11,5 mg/l	72 h	Scenedesmus subspicatus	
	Acute crustacea toxicity	EC50	39 mg/l	48 h	Daphnia magna	
27247-96-7	2-Ethyl hexyl nitrate					
	Acute fish toxicity	LC50	2 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50	1-10 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	>10 mg/l	48 h	Daphnia magna	
70024-69-0	Benzenesulfonic acid, mono-C20-24- alkyl derivs., calcium salts					
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna	
108-88-3	toluene					
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID
	Acute algae toxicity	ErC50	12,5 mg/l	72 h		GESTIS
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene					
	Acute fish toxicity	LC50	2-5 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50	1-3 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50	3-10 mg/l	48 h	Daphnia magna	
37205-87-1	isononylphenole, ethoxylised					
	Acute fish toxicity	LC50	1-10 mg/l	96 h	Brachydanio rerio	
	Acute algae toxicity	ErC50	1-10 mg/l	72 h	Scenedesmus subspicatus	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Swims on the water.

Low potential of bio-accumulation.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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No information available.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Do not allow to enter into surface water or drains.

Arrange about the exact waste code with the local waste disposal expert.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.

Do not pierce, cut up or weld unclean container. (Explosion hazard.)

SECTION 14: Transport information

Land transport (ADG)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	223, 274
Limited quantity:	5 L

Other applicable information (land transport)

HAZCHEM: .3Y

Marine transport (IMDG)

14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Marine pollutant:	-
Special Provisions:	223, 274, 955
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

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14.1. UN number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
14.3. Transport hazard class(es):	3
14.4. Packing group:	III
Hazard label:	3



Special Provisions:	A3
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
isononylphenole, ethoxylised

Restrictions on use (REACH, annex XVII):

Entry 28: Distillates (petroleum, gasoline), hydrotreated light
Entry 46a: isononylphenole, ethoxylised
Entry 48: toluene

Additional information

Contains:

> 30 % aliphatic hydrocarbons
5 - 15 % aromatic hydrocarbons

National regulatory information

Water contaminating class (D): 2 - water contaminating

Additional information

POISON SCHEDULE: 5

All components of this mixture are listed on or exempted from AICS.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information



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Abbreviations and acronyms

ADG = Australian Code for the Transport of Dangerous Goods by Road & Rail
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
HAZCHEM = HAZardous CHEMicals

WHS = Work Health and Safety
NOHSC = National Occupational Health and Safety Commission (Australia)
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and AUH phrases (number and full text)

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
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.
H361 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.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
AUH044 Risk of explosion if heated under confinement.
AUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.
The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)