



Safety Data Sheet

bluechem
GROUP

According to the Model WHS Regulations and the ADG code

Diesel-Power-Additive 3 in 1

Revision date: 12.09.2019

Product code: 2287

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

1.1. Product identifier

Diesel-Power-Additive 3 in 1

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

Use of the substance/mixture

Bactericide for Dieselfuels
Increase the cetane number.

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: 33158, 51060

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:
Acute toxicity: Acute Tox. 4
Acute toxicity: Acute Tox. 4
Aspiration hazard: Asp. Tox. 1
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitisation: Skin Sens. 1
Germ cell mutagenicity: Muta. 2
Carcinogenicity: Carc. 1B
Carcinogenicity: Carc. 2
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
Harmful if swallowed.
Harmful if inhaled.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing genetic defects.
May cause cancer.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to WHS

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Component(s) to be indicated on the label

Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics 45 -< 50 %
2-Ethyl hexyl nitrate 40 -< 45 %
Fuels, diesel, No 2, Gasoil - unspecified 5 -< 10 %
3,3-methylene bis [5-methyloxazolidine] < 5 %

Signal word: Danger

Pictograms:



exclamation mark - health hazard - environment

Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H304	May be fatal if swallowed and enters airways.
H411	Toxic 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.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing Gas/vapour/aerosole.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P310	Immediately call a POISON CENTER/doctor.
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of Water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of this material and its container to hazardous or special waste collection point.

Special labelling of certain mixtures

AUH044	Risk of explosion if heated under confinement.
AUH071	Corrosive to the respiratory tract. Restricted to professional users. Read attached instructions before use.



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2.3. Other hazards

Use biocides safely. Always read the label and product information before use.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to WHS criteria			
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics	45 - < 50 %		
	918-481-9		01-2119457273-39	
	Asp. Tox. 1; H304 AUH066			
27247-96-7	2-Ethyl hexyl nitrate	40 - < 45 %		
	248-363-6		01-2119539586-27	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Aquatic Chronic 2; H332 H312 H302 H411 AUH044 AUH066			
68476-34-6	Fuels, diesel, No 2, Gasoil - unspecified	5 - < 10 %		
	270-676-1			
	Carc. 2, Asp. Tox. 1, Aquatic Chronic 2; H351 H304 H411 AUH066			
66204-44-2	3,3-methylene bis [5-methyloxazolidine]	1 - < 5 %		
	266-235-8			
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1, STOT RE 2, Aquatic Chronic 2; H350 H341 H311 H332 H302 H314 H318 H317 H373 H411 AUH071			

Full text of H and AUH phrases: see section 16

Further Information

Hydrocarbons:

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.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

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

In case of difficulties of breathing consult physician.

If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .

After contact with skin, wash immediately with plenty of water and soap.

Rub greasy ointment into the skin.

After contact with eyes

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

Consult physician.



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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.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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.

alcohol resistant foam.

Carbon dioxide (CO₂).

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

In case of fire: Wear self-contained breathing apparatus.

HAZCHEM: ●3Z

Additional information

Cool endangered container in case of fire.

Contaminated fire-fighting water must be collected separately.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

In case of fire: Wear self-contained breathing apparatus.

Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Beat down gas/vapours/mist with water spray.

Do not empty into drains or the aquatic environment.

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

Prevent spreading of spillages (e.g. by oil barrier).

Wipe up with absorbent material (eg. cloth, fleece).

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

Closed devices. Vapours / aerosols must be extracted by suction immediately at point of origin.



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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.

Further information on storage conditions

Packaging materials: metal.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits (OEL) - Australia

No data available

8.2. Exposure controls

Protective and hygiene measures

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. (DIN EN 166)

Hand protection

Tested protective gloves are to be worn: Butyl rubber. (DIN EN 374)

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 insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	transparent
Odour:	aromatic

Test method

Changes in the physical state

Initial boiling point and boiling range:	180 - 210 °C
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Flash point:	> 61 °C
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Density (at 20 °C):	0.87 g/cm ³
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Solubility in other solvents

Organic solvents

9.2. Other information

No data

SECTION 10: Stability and reactivity

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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.

10.5. Incompatible materials

Oxidizing agents. acid, concentrated. Alkalis (alkalis), concentrated.

10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATEmix calculated

ATE (oral) 1219,5 mg/kg; ATE (inhalation aerosol) 3,659 mg/l

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics			
	oral	LD50 > 5000 mg/kg	Rat	
	dermal	LD50 > 5000 mg/kg	Rabbit	
	inhalation (4 h) gas	LC50 >5 ppm	Rat	
27247-96-7	2-Ethyl hexyl nitrate			
	oral	LD50 >9640 mg/kg	Rat	
	dermal	LD50 >4820 mg/kg	Rabbit	
	inhalation (1 h) vapour	LC50 4,6 mg/l	Rat	
	inhalation aerosol	ATE 1,5 mg/l		
68476-34-6	Fuels, diesel, No 2, Gasoil - unspecified			
	oral	LD50 >2000 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg	Rabbit	
	inhalation (4 h) vapour	LC50 >10 mg/l	Rat	
66204-44-2	3,3-methylene bis [5-methyloxazolidine]			
	oral	LD50 300-2000 mg/kg	Rat	
	dermal	LD50 760-2000 mg/kg	Rat	
	inhalation vapour	ATE 11 mg/l		
	inhalation aerosol	ATE 1,5 mg/l		

Irritation and corrosivity

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After skin contact: 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.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
64742-48-9	Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics				
	Acute fish toxicity	LC50 1000 mg/l	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 1000 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 1000 mg/l	48 h	Daphnia magna (Big water flea)	
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	
66204-44-2	3,3-methylene bis [5-methyloxazolidine]				
	Acute fish toxicity	LC50 10-100 mg/l	96 h	Fish	
	Acute algae toxicity	ErC50 1-10 mg/l	72 h	Algae	
	Acute crustacea toxicity	EC50 10-100 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Swims on the water. Low potential of bio-accumulation.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

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

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

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

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

SECTION 14: Transport information

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Land transport (ADG)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 2-Ethyl hexyl nitrate
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Special Provisions:	274 335 375 601
Limited quantity:	5 L

Other applicable information (land transport)

HAZCHEM: ●3Z

Marine transport (IMDG)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 2-Ethyl hexyl nitrate
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Marine pollutant:	P
Special Provisions:	274, 335, 969
Limited quantity:	5 L
Excepted quantity:	E1
EmS:	F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 3082
14.2. UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 2-Ethyl hexyl nitrate
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Hazard label:	9



Special Provisions:	A97 A158 A197
Limited quantity Passenger:	30 kg G
Passenger LQ:	Y964
Excepted quantity:	E1
IATA-packing instructions - Passenger:	964
IATA-max. quantity - Passenger:	450 L
IATA-packing instructions - Cargo:	964
IATA-max. quantity - Cargo:	450 L

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: 2-Ethyl hexyl nitrate

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

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons, C10-C13, n-Alkanes, Isoalkanes, Cyclics, < 2% Aromatics

Additional information

Contains:

> 30 % hydrocarbons, aliphatic.

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

Biocide registry number: N-68836

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

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



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EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

Relevant H and AUH phrases (number and full text)

H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
AUH044	Risk of explosion if heated under confinement.
AUH066	Repeated exposure may cause skin dryness or cracking.
AUH071	Corrosive to the respiratory tract.

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.)