

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

InSpec AN Concentrate

Version 3.0 / EN
Revision Date 24.05.2015
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Substance name : InSpec AN Concentrate

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

Use of the Substance/Mixture : Disinfectant / Disinfectant concentrate with cleaning properties

1.3 Details of the supplier of the safety data sheet

Company : Redditch Medical (a divn of
Entaco) Unit 90 Heming Rd
Washford Redditch UK B98
0EA. +44 (0) 1527 830940

E-mail address : craig.thomas@redditchmedical.com
Responsible/issuing person

1.4 Emergency telephone number

+44 (0) 1527 830940 office hours
+44 (0) 7908 176679 out of hours

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Skin corrosion; Category 1B	H314	Causes severe skin burns and eye damage.
Acute aquatic toxicity; Category 1	H400	Very toxic to aquatic life.
Chronic aquatic toxicity; Category 2	H411	Toxic to aquatic life with long lasting effects.

67/548/EEC / 1999/45/EC

Causes burns.
Very toxic to aquatic organisms.

InSpec AN Concentrate

2.2 Label elements

Labelling according to EC Directives

REGULATION (EC) No 1272/2008

Pictogram :



Signal word : Danger

Hazard statements

- H314 : Causes severe skin burns and eye damage.
- H400 : Very toxic to aquatic life.
- H411 : Toxic to aquatic life with long lasting effects.

Precautionary statements

- P273 : Avoid release to the environment.
- P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 : Immediately call a POISON CENTER or doctor/ physician.

67/548/EEC / 1999/45/EC

Symbol(s) :



Corrosive



Dangerous for the environment

R-phrase(s)

- R34 : Causes burns.
- R50 : Very toxic to aquatic organisms.

S-phrase(s)

- S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28 : After contact with skin, wash immediately with plenty of water.
- S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
- S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S61 : Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Special labelling of certain mixtures : Use biocides safely. Always read the label and product information before use.

2.3 Other hazards

General advice : No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Substances / Mixtures : Mixture

Hazardous components

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

CAS-No.	EC-No. / Registration number	Classification	Concentration
2372-82-9	219-145-8	Acute Tox.; 3; H301 Skin Corr.; 1A; H314 STOT RE; 2; H373 Aquatic Acute; 1; H400 Aquatic Chronic; 1; H410 C, N; R22, R48/22, R35, R50	< 10 %

Alcohols, c12-14, ethoxylated, sulfates, sodium salts

68891-38-3		Skin Irrit.; 2; H315 Eye Dam.; 1; H318 Xi; R38, R41	< 5 %
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Isotridecanol, ethoxylated

69011-36-5		Acute Tox.; 4; H302 Eye Dam.; 1; H318 Xn; R22, R41	< 5 %
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Lactic acid

50-21-5	200-018-0	Skin Irrit.; 2; H315 Eye Dam.; 1; H318	< 5 %
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For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the R-phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Inhalation : Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Give oxygen. First aider needs to protect himself. Call a physician immediately.
- Skin contact : Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
- Ingestion : Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Dry powder, Water spray, Foam

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Heating or fire can release toxic gas.

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use respirator when performing operations involving potential exposure to vapour of the product.

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6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

Specific use(s) : No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
Respirator with a vapour filter (EN 141) Respirator with ABEK filter.

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Hand protection	: Suitable material : Nitrile rubber Break through time : > 480 min Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	: Tightly fitting safety goggles Face-shield
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron Rubber or plastic boots
Hygiene measures	: Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Environmental exposure controls

General advice	: Do not flush into surface water or sanitary sewer system.
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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: light yellow
Odour	: amine-like
pH	: 10 (20 °C)
Boiling point/boiling range	: ca. 100 °C
Flash point	: Not applicable
Vapour pressure	: 23 hPa (20 °C)
Density	: 1,022 g/cm ³ (20 °C)
Water solubility	: completely miscible
Auto-flammability	: not auto-flammable
Viscosity, dynamic	: 5 mPa.s (23 °C)
Explosivity	: Classification Code: Not explosive

9.2 Other information

no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Stable under normal conditions.

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Additional advice : Ingestion may cause nausea, vomiting, sore throat, stomach-ache and eventually lead to a perforation of the intestine.

The following toxicological data refer to:

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (CAS-No.: 2372-82-9)

Information on toxicological effects

Acute oral toxicity (LD50) : 261 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Acute dermal toxicity (LD50) : > 600 mg/kg
Species: Rat
Method: OECD Test Guideline 402
Maximum tested concentration, no deaths.

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Skin irritation	: Causes severe burns. Species: Rabbit Exposure time: 3 min Method: OECD Test Guideline 404
Sensitisation	: not sensitizing Species: Guinea pig Buehler Test Method: OECD Test Guideline 406
Repeated dose toxicity	: NOAEL: 9 mg/kg Application Route: Oral Exposure time: 90 d Species: Rat Method: OECD Test Guideline 408
	NOAEL: 20 mg/kg Application Route: Dietary Exposure time: 90 d Species: Dog Method: OECD Test Guideline 409
	NOAEL: 15 mg/kg Application Route: Dermal Exposure time: 90 d Species: Rat Method: US-EPA
	NOAEL: 9 mg/kg Application Route: Oral Exposure time: 90 d Species: Rat
Genotoxicity in vitro	: negative Ames test, Salmonella typhimurium Method: OECD Test Guideline 471
	negative Gene mutation, CH-cells V79 Method: OECD Test Guideline 476
	negative Chromosome aberration test in vitro, CH-cells V79 Method: OECD Test Guideline 473
Carcinogenicity	: not carcinogenic Application Route: Dietary Species: Rat Method: OECD Test Guideline 453
Reproductive toxicity	: Test type: Two-generation reproductive toxicity Species: Rat Application Route: Oral
Additional advice	: Absorption

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Behaviour in environmental compartments : no data available

12.5 Results of PBT and vPvB assessment

Assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional advice : Very toxic to aquatic organisms.
Do not flush into surface water or sanitary sewer system.
Discharge into the environment must be avoided.

The following ecotoxicological data refer to:

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine (CAS-No.: 2372-82-9)

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Toxicity

Toxicity to fish (LC50)	: 0,68 mg/l Species: Oncorhynchus mykiss (rainbow trout) Acute toxicity Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to fish (LC50)	0,45 mg/l Species: Lepomis macrochirus (Bluegill sunfish) Acute toxicity Exposure time: 96 h Method: US-EPA
Toxicity to daphnia and other aquatic invertebrates (EC50)	: 0,073 mg/l Species: Daphnia magna (Water flea) Immobilization Exposure time: 48 h Method: US-EPA
(NOEC)	0,024 mg/l Species: Daphnia magna (Water flea) Reproduction Test Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to algae (ErC50)	: 0,054 mg/l Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Exposure time: 96 h Method: US-EPA
Toxicity to algae (ErC10)	: 0,012 mg/l Species: Desmodesmus subspicatus (green algae) Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to algae (NOEC)	: 0,0069 mg/l Species: Desmodesmus subspicatus (green algae) Growth inhibition Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 10
M-Factor (Chronic aquatic toxicity)	: 1
Toxicity to bacteria (EC50)	: 18 mg/l Species: activated sludge Respiration inhibition Exposure time: 3 h Method: OECD Test Guideline 209

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Persistence and degradability

Biodegradability : OECD Confirmatory Test: ca. 96 %
Testing period: 12 - 15 d
Method: OECD Test Guideline 303 A

Zahn-Wellens Test: 91 %
Testing period: 28 d
Method: OECD Test Guideline 302 B

Closed Bottle test: 79 %
Readily biodegradable
Testing period: 28 d
Method: OECD Test Guideline 301D

Mineralisation: 73,8 %
Testing period: 28 d

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Bioaccumulative potential

Bioaccumulation : no data available

Behaviour in environmental compartments : Adsorption/Soil

Other adverse effects

Additional advice : no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
Contact waste disposal services.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

IATA

14.1	UN number	:	1903
14.2	Proper shipping name	:	Disinfectant, liquid, corrosive, n.o.s. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Labels	:	8
14.5	Environmental hazards	:	no

IMDG

14.1	UN number	:	1903
14.2	Proper shipping name	:	Disinfectant, liquid, corrosive, n.o.s. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Labels	:	8
	EmS Number 1	:	F-A
	EmS Number 2	:	S-B
14.5	Environmental hazards	:	Marine pollutant: yes

ADR

14.1	UN number	:	1903
14.2	Proper shipping name	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Classification Code	:	C9
	Hazard Identification Number	:	80
	Labels	:	8
14.5	Environmental hazards	:	yes

RID

14.1	UN number	:	1903
14.2	Proper shipping name	:	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3	Transport hazard class	:	8
14.4	Packing group	:	III
	Classification Code	:	C9
	Hazard Identification Number	:	80
	Labels	:	8
14.5	Environmental hazards	:	yes

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DOT

14.1 UN number	: 1903
14.2 Proper shipping name	: Disinfectants, liquid, corrosive n.o.s. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3 Transport hazard class	: 8
14.4 Packing group	: III
Labels	: 8
Emergency Response Guidebook Number	: 153
14.5 Environmental hazards	: no

TDG

14.1 UN number	: 1903
14.2 Proper shipping name	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (N,N-Bis (3-aminopropyl) dodecylamine)
14.3 Transport hazard class	: 8
14.4 Packing group	: III
Labels	: 8
14.5 Environmental hazards	: no
14.6 Special precautions for user	: none
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Water contaminating class (Germany) : WGK 2: water endangering

15.2 Chemical Safety Assessment

not required

SECTION 16: Other information

Full text of H-Statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.

Full text of R-Phrases

R22	Harmful if swallowed.
R35	Causes severe burns.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.