

Monoethanolamine >55%

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:	
Product name:	MONOETHANOLAMINE DILUTIONS > 55%
Synonyms; trade names:	MONOETHANOLAMINE 99 LFG 85%, MONOETHANOLAMINE PURE 80%,
	MONOETHANOLAMINE PURE 85%, MONOETHANOLAMINE 90%, MONOETHANOLAMINE
	85%, MONOETHANOLAMINE 90%, MONOETHANOLAMINE (MEA) 85%,
	MONOETHANOLAMINE 99% (MEA), MONOETHANOLAMINE PURE 90%?
Relevant identified uses of th	e substance or mixture and uses advised against:
Identified uses:	Industrial application For further information, see attached Exposure Scenario.
Company name:	Nexchem Ltd
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	Leycroft Road
	Leicester
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	Tel: 0116 2311130
	24/7 Emergency Tel: 0800 246 1274
	Email: <u>sales@nexchem.co.uk</u>

2. HAZARDS IDENTIFICATION

Classification of the substance of	or mixture:
Classification (EC 1272/2008):	
Physical hazards:	Not Classified.
Health hazards:	Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Corr. 1B - H314, Eye Dam. 1 - H318, STOT SE 3 - H335.
Environmental hazards:	Aquatic Chronic 3- H412.
Environmental:	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Label elements:

Hazard pictograms:



Signal word:	Danger.
Hazard statements:	H312+H332 Harmful in contact with skin or if inhaled.
	H314 Causes severe skin burns and eye damage.
	H335 May cause respiratory irritation.
	H412 Harmful to aquatic life with long lasting effects.
Precautionary statements:	P260 Do not breathe vapour/spray.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+P352 IF ON SKIN: Wash with plenty of water.
	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains:	2-AMINOETHANOL
Other hazards:	This product does not contain any substances classified as PBT or vPvB.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures:

> 55
141-43-5
205-483-3
01-2119486455-28-XXXX
Acute Tox 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
Aquatic Chronic 3 - H412

The full text for all hazard statements is displayed in Section 16.

Composition comments: The data shown are in accordance with the latest EC Directives.

4. FIRST AID MEASURES

Description of first aid measures:

Inhalation:	Remove affected person from source of contamination. Keep affected person warm and at
	rest. Get medical attention immediately.
Ingestion:	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth
	thoroughly with water. Get medical attention immediately.
Skin contact:	Remove affected person from source of contamination. Remove contaminated clothing. Wash
	skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after
	washing.
Eye contact:	Remove affected person from source of contamination. Remove any contact lenses and open
	eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.
	Continue to rinse.
Most important symptoms and effects, both acute and delayed:	
Inhalation:	Coughing, chest tightness, feeling of chest pressure.

Ingestion:	May cause discomfort if swallowed. May cause chemical burns in mouth and throat.
Skin contact:	Skin irritation. Burning pain and severe corrosive skin damage.
Eye contact:	Severe irritation, burning and tearing.

Indication of any immediate medical attention and special treatment needed:

Notes for the doctor: No specific recommendations. If in doubt, get medical attention pro	omptly.
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5. FIRE-FIGHTING MEASURES

Extinguishing media:	
Suitable extinguishing media:	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture:	
Specific hazards:	Oxides of the following substances: Nitrogen.

Advice for firefighters:

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	
Personal precautions:	Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental precautions:	Avoid or minimise the creation of any environmental contamination. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or
	other appropriate regulatory body.

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Methods and material for containment and cleaning up:

Methods for cleaning up:	Do not touch or walk into spilled material. Stop leak if possible, without risk. Absorb in
	vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty
	of water.

Reference to other sections: Wear protective clothing as described in Section 8 of this safety data sheet.

7. HANDLING AND STORAGE

Precautions for safe handling: Usage precautions:	Avoid spilling. Avoid contact with skin and eyes.	
Conditions for safe storage, including any incompatibilities:		
Storage precautions:	Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
Storage class:	Corrosive storage.	
Specific end use(s):	The identified uses for this product are detailed in Section 1.2.	

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits:

2-AMINOETHANOL

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 3 ppm 7.6 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Ingredient comments:

DNEL:	Industry - Dermal; Long term systemic effects: 1 mg/kg/day
	Industry - Inhalation; Long term systemic effects: 3.3 mg/m ³
	Industry - Inhalation; Long term local effects: 3.3 mg/m ³
	Consumer - Dermal; Long term systemic effects: 0.24 mg/m3
	Consumer - Inhalation; Long term systemic effects: 2 mg/m ³
	Consumer - Inhalation; Long term local effects: 2 mg/m ³
	Consumer - Oral; Long term systemic effects: 3.75 mg/kg
PNEC:	Fresh water; 0.085 mg/l
	Marine water; 0.0085 mg/l
	Intermittent release; 0.028 mg/l
	Sediment (Freshwater); 0.434 mg/kg
	Sediment (Marine water); 0.0434 mg/kg
	Soil; 0.0367 mg/kg
	STP; 100 mg/l

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Exposure controls:

Protective equipment:



Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection:	The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile rubber. Butyl rubber. To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection:	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures:	Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.
Respiratory protection:	No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs. EN 136/140/141/145/143/149.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	Liquid.	
Colour:	Colourless.	
Odour:	Amine.	
Odour threshold:	No information available.	
pH:	No information available.	
Melting point:	No information available.	
Initial boiling point and range:	No information available.	
Flash point:	No information available.	
Evaporation rate:	No information available.	
Evaporation factor:	No information available.	
Flammability (solid, gas):	No information available.	
Upper/lower flammability or explosive limits: No information available.		
Other flammability:	No information available.	
Vapour pressure:	No information available.	
Vapour density:	No information available.	
Relative density:	No information available.	
Bulk density:	No information available.	
Solubility (ies):	Soluble in water.	

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Partition coefficient:	No information available.	
Auto-ignition temperature:	No information available.	
Decomposition Temperature:	No information available.	
Viscosity:	No information available.	
Explosive properties:	No information available.	
Explosive under the influence of a flame: No information available.		
Oxidising properties:	No information available.	

Other information:	
Refractive index:	No information available.
Particle size:	No information available.
Molecular weight:	No information available.
Volatility:	No information available.
Saturation concentration:	No information available.
Critical temperature:	No information available.
Volatile organic compound:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	There are no known reactivity hazards associated with this product.	
Chemical stability: Stability:	Stable at normal ambient temperatures.	
Possibility of hazardous reactions: Not determined.		
Conditions to avoid:	Avoid excessive heat for prolonged periods of time. Avoid contact with the following materials: Acids. Oxidising agents. Acid anhydrides.	
Incompatible materials: Materials to avoid:	Strong acids. Strong oxidising agents. Strong oxides. Chemically-active metals.	

Hazardous decomposition products: Heating may generate the following products: Toxic and corrosive gases or vapours.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects: Acute toxicity – oral: ATE oral (mg/kg): 3,127.27 Acute toxicity – dermal:

ATE dermal (mg/kg): 1,863.64

Acute toxicity – inhalation:		
ATE inhalation (gases ppm):	8,181.82	
ATE inhalation (vapours mg/l):	20.0	
ATE inhalation (dusts/mists mg/l): 2.73		
Skin corrosion/irritation:	Causes severe burns.	
Serious eye damage/irritation:	Causes severe burns.	
Respiratory sensitisation:	No information available.	
Skin sensitisation:	No information available	
okin schällsallon.		
Germ cell mutagenicity:		
Genotoxicity - in vitro:	No information available.	
Carcinogenicity:	No information available.	
Poproductivo toxioituu		
Reproductive toxicity:	No information available	
Reproductive toxicity – fertility.		
Specific target organ toxicity - s	ngle exposure:	
STOT - single exposure:	May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure:		
- J		
STOT - repeated exposure:	No information available.	
STOT - repeated exposure:	No information available.	
STOT - repeated exposure: Aspiration hazard:	No information available. No information available.	
STOT - repeated exposure: Aspiration hazard: Inhalation:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and	
STOT - repeated exposure: Aspiration hazard: Inhalation:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact: Toxicological information on ingree 2-AMINOETHANOL	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact: Toxicological information on ingred 2-AMINOETHANOL Acute toxicity – oral:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact: Toxicological information on ingred 2-AMINOETHANOL Acute toxicity – oral: Acute toxicity oral (LD ₅₀ mg/kg):	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact: Toxicological information on ingred 2-AMINOETHANOL Acute toxicity – oral: Acute toxicity oral (LD ₅₀ mg/kg): Species:	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns. ients.	
STOT - repeated exposure: Aspiration hazard: Inhalation: Ingestion: Skin contact: Eye contact: Toxicological information on ingred 2-AMINOETHANOL Acute toxicity – oral: Acute toxicity oral (LD ₅₀ mg/kg): Species: Notes (oral LD ₅₀):	No information available. No information available. Harmful if inhaled. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. May cause burns in mucous membranes, throat, oesophagus and stomach. Harmful in contact with skin. May cause serious chemical burns to the skin. Causes burns. ients.	

Acute toxicity – dermal:		
Acute toxicity dermal (LD _{ro} mg/kg): 1.025.0		
Species:	Rabbit	
Notes (dermal LD ₅₀):	OECD 402	
ATE dermal (mg/kg):	1,025.0	
Acute toxicity – inhalation:		
ATE inhalation (gases ppm):	4,500.0	
ATE inhalation (vapours mg/l):	11.0	
ATE inhalation (dusts/mists mg/	I): 1.5	
Skin corrosion/irritation:		
Skin corrosion/irritation:	Corrosive to skin. OECD 404	
Serious eye damage/irritation:		
Serious eye damage/irritation:	Irritating.	
Respiratory sensitisation:		
Respiratory sensitisation:	Not sensitising.	
Skin sensitisation:		
Skin sensitisation:	Guinea pig maximization test (GPMT) - Guinea pig: OECD 406 Not sensitising.	
Germ cell mutagenicity:		
Genotoxicity - in vitro:	Based on available data the classification criteria are not met.	
Carainaganiaitu		
Carcinogenicity:	No specific test data are available	
Carcinogenicity.	No specific lest data are available.	
Reproductive toxicity:		
Reproductive toxicity – fertility:	No specific test data are available.	
Specific target organ toxicity - si	ingle exposure:	
STOT - single exposure:	No information available.	
Specific target organ toxicity - repeated exposure:		
STOT - repeated exposure:	May cause respiratory system irritation.	
Aspiration hazard:		
Aspiration hazard:	Not applicable.	
Inhalation:	Harmful by inhalation.	
Ingestion:	Harmful if swallowed. Causes burns.	
Skin contact:	Harmful in contact with skin. Causes burns.	
Eye contact:	May cause chemical eye burns. Causes burns.	
Route of exposure:	Inhalation Ingestion. Skin absorption Skin and/or eye contact.	

[cont...]

12. ECOLOGICAL INFORMATION

Ecological	information	on ingradiants	
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2-AMINOETHANOL	
Ecotoxicity:	Harmful to aquatic life with long lasting effects.
Toxicity:	The product contains a substance which is harmful to aquatic organisms. Harmful to aquatic life.
Acute aquatic toxicity:	
Acute toxicity – fish:	LC50, 96 hours: 349 mg/l, Cyprinus carpio (Common carp)
	LC50, 96 hours: 170 mg/l, Carassius auratus (Goldfish)
	LC ₅₀ , 96 hour: 227 mg/l, Pimephales promelas (Fat-head Minnow)
	LC ₅₀ , 96 hour: 3684 mg/l, Brachydanio rerio (Zebra Fish)
	LC ₅₀ , 96 hour: 300 - 1000 mg/l, Lepomis macrochirus (Bluegill)
	LC ₅₀ , 96 hour: 114 - 196 mg/l, Oncorhynchus mykiss (Rainbow trout)
	LC ₅₀ , 96 hour: 200 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity – aquatic inverteb	rates: EC ₅₀ , 48 hours: 65 mg/l, Daphnia magna
Acute toxicity - aquatic plants:	EC ₅₀ , 72 hours: 2.5 mg/l, Selenastrum capricornutum
	EC ₅₀ , 72 hours: 22 mg/l, Scenedesmus subspicatus
	OECD 201
	EC ₅₀ , 72 hour: 2.8 mg/l, Pseudokirchneriella subcapitata
Acute toxicity – microorganisms	: EC20, 30 minutes: > 1000 mg/l, activated sludge
	EC ₅₀ , 3 hours >: 1000 mg/l, Activated sludge
	OECD 209
Chronic aquatic toxicity:	
Chronic toxicity – aquatic inverte	ebrates: NOEC, 21 days: 0.85 mg/l, Daphnia magna
Persistence and degradability:	The product is readily biodegradable.
Bioaccumulative potential:	The product does not contain any substances expected to be bioaccumulating.
	Partition coefficient log Kow: 1.91 OECD 107
Mobility in soil:	
Mobility:	The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.
Results of PBT and vPvB assess	sment: This substance is not classified as PBT or vPvB according to current EU criteria.
Cod:	1.54
Other adverse effects:	Not determined.

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sheet.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:	
General information:	Do not puncture or incinerate, even when empty. Waste should be treated as controlled waste.
Disposal methods:	Dispose of waste to licensed waste disposal site in accordance with the requirements of the
	local Waste Disposal Authority.

14. TRANSPORT INFORMATION

General:	Wear protective clothing as described in Section 8 of this safety data
UN number:	
UN No. (ADR/RID):	2491
UN No. (IMDG):	2491
UN No. (ICAO):	2491
UN proper chipping perce	
on proper snipping name:	
Duran an all in a lan a sure a (ADD/	

Proper shipping name (ADR/RID)	: ETHANOLAMINE SOLUTION
Proper shipping name (IMDG):	ETHANOLAMINE SOLUTION
Proper shipping name (ICAO):	ETHANOLAMINE SOLUTION
Proper shipping name (ADN):	ETHANOLAMINE SOLUTION

Transport hazard class (es):

ADR/RID class:	8
ADR/RID classification code:	C7
ADR/RID label:	8
IMDG class:	8
ICAO class/division:	8
ADN class:	8

Transport labels:



Packing group:	
ADR/RID packing group:	III
IMDG packing group:	III
ADN packing group:	III
ICAO packing group:	III

Environmentally hazardous substance/marine pollutant: No.

Special precautions for user:		
IMDG Code segregation group:	18. Alkalis.	
EmS:	F-A, S-B	
ADR transport category:	3	
Emergency Action Code:	2X	
Hazard Identification Number (ADR/RID): 80		
Tunnel restriction code:	(E)	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

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

EU legislation Regulation:	(EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
Chemical safety assessment:	A chemical safety assessment has been carried out.
Note:	The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet:

ATE: Acute Toxicity Estimate. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods. Kow: Octanol-water partition coefficient. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

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RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. vPvB: Very Persistent and Very Bioaccumulative. IARC: International Agency for Research on Cancer. MARPOL 73/78: International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. cATpE: Converted Acute Toxicity Point Estimate. BCF: Bioconcentration Factor. BOD: Biochemical Oxygen Demand. EC₅₀: 50% of maximal Effective Concentration. LOAEC: Lowest Observed Adverse Effect Concentration. LOAEL: Lowest Observed Adverse Effect Level. NOAEC: No Observed Adverse Effect Concentration. NOAEL: No Observed Adverse Effect Level. NOEC: No Observed Effect Concentration. LOEC: Lowest Observed Effect Concentration. DMEL: Derived Minimal Effect Level. EL50: Exposure Limit 50 hPa: Hectopascal LL50: Lethal Loading fifty OECD: Organisation for Economic Co-operation and Development POW: Octanol-water partition coefficient SCBA: self-contained breathing apparatus STP: Sewage Treatment Plant VOC: Volatile Organic Compounds **Classification abbreviations and acronyms:** Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Hazard statements in full:H302 Harmful if swallowed.H312 Harmful in contact with skin.H314 Causes severe skin burns and eye damage.H318 Causes serious eye damage.H332 Harmful if inhaled.H335 May cause respiratory irritation.H412 Harmful to aquatic life with long lasting effects.

 Legal disclaimer:
 The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation.

 This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.