

SAFETY DATA SHEET
according to Regulation (EC) No 1907/2006
as amended by Regulation (EU) No 2015/830

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1

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

1.1. Product identifier

Product trade name: **QUAKERCOOL 7330 BFF**

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

Intended uses:

Machining and grinding fluid

Uses advised against:

All other applications except: Machining and grinding fluid

1.3. Details of the supplier of the safety data sheet

Supplier:

Quaker Chemical B.V.
Industrieweg 7, 1422 AH Uithoorn
The Netherlands
T:+31 (0) 297 544644
F:+31 (0) 297 544694
quakerchem.com

Responsible person:

Quaker Chemical B.V.
Industrieweg 7, 1422 AH Uithoorn
The Netherlands
T:+31 (0) 297 544644
F:+31 (0) 297 544694
quakerchem.com

National contact:

Quaker Chemical B.V.
Department for Safety, Health and Environment
SHEQEU@quakerchem.com

1.4. Emergency telephone number

United Kingdom: 08 448 920 111
National Poisons Information Services (24/7)
Ireland: 01 837 99 64
Poisons information centre of Ireland (24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin corrosion/irritation

Category 2 - (H315)

Serious eye damage/eye irritation
Chronic aquatic toxicity

Category 2 - (H319)
Category 3 - (H412)

Classification procedure: Calculation method

2.2. Label elements



Signal Word

WARNING

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid release to the environment

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Dispose of as hazardous waste in compliance with local and national regulations.

2.3. Other hazards

None under normal use

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. Product is a mixture.

3.2 Mixture

Description of the mixture:

Product is a mixture of: mineral oil, water, salt, additives.

Hazardous ingredients:

Components	EC No	Index No	REACH Registration No	Weight %	Classification according to Regulation (EC) No 1272/2008 (CLP)

Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	265-155-0	649-465-00-7	01-2119467170-45	10 - 30	None	[x] [L]
1-Aminopropan-2-ol 78-96-6	201-162-7	603-082-00-1	01-2119475331-43	1 - 5	Skin Corr. 1B (H314)	[x]
1-Phenoxypropan-2-ol 770-35-4	212-222-7		01-2119486566-23	1 - 5	Eye Irrit. 2 (H319)	
Monoethanolamine 141-43-5	205-483-3	603-030-00-8	01-2119486455-28	1 - 5	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1B (H314)	[x]
Sulfonic acids, petroleum, sodium salts 68608-26-4	271-781-5		01-2119527859-22	1 - 5	Eye Irrit. 2 (H319)	
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	223-296-5			< 1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	[x]

[x] Substances for which there are Community workplace exposure limits
[L] Classification as a carcinogen does not apply. (<3% DMSO extract - IP346)

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes:	First aid may be given by the first person 'on the spot'. However, it is generally known that a first aider a person is with first aid training. First aiders should be familiar with the specific conditions and hazards at the workplace.
Following inhalation:	Not hazardous by inhalation.
Following skin contact:	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
Following eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Following ingestion:	Rinse mouth
Self-protection of the first aider:	First aider needs to protect himself.

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

Following inhalation:	
Acute:	There are no symptoms or effects reported.
Delayed:	There are no symptoms or effects reported.
Following skin contact:	
Acute:	Irritation, Redness.
Delayed:	Irritation, Redness.
Following eye contact:	

Acute: Irritation, Redness.
Delayed: Irritation, Redness.

Following ingestion:

Acute: There are no symptoms or effects reported.
Delayed: There are no symptoms or effects reported.

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

Following inhalation: No data available
Following skin contact: No data available
Following eye contact: No data available
Following ingestion: No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Dry chemical
Foam
Water
Carbon dioxide (CO₂)

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Not applicable - boils at 100°C (product contains water)

5.3. Advice for firefighters

Standard procedure for chemical fires

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment: Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing.
Emergency procedures: Consult an expert.

6.1.2 For emergency responders

Protective equipment: Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing.
Emergency procedures: Consult an expert.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system

6.3. Methods and material for containment and cleaning up

- 6.3.1 For containment:** Covering of the drains.
- 6.3.2 For cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)
- 6.3.3 Other information:** Clear spills immediately

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures:

- Measures to prevent fire:** Always keep ignition sources and product separated. Use a fire suppression system which is suitable for the facility and the potential hazards.
- Measures to prevent aerosol and dust generation:** Provide sufficient air exchange and/or exhaust in work rooms.
- Measures to protect the environment:** Do not flush into surface water or sanitary sewer system
- Advice on general occupational hygiene:** Wash hands thoroughly after handling

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures and storage conditions:** Storage at 4 - 35 °C
- Packaging materials:** Store in original package or in dedicated storage tank.
- Requirements for storage rooms and vessels:** Store in accordance with local and national regulations.
- Storage class:** 10 (D: TRGS 510)
- Further information on storage conditions:** No data available

7.3. Specific end use(s)

- Recommendations:** See our technical data sheet.
- Concentration to be used:** 5 - 8 %
- Industrial sector specific solutions:** See our technical data sheet.
- Exposure scenario(s):** Exposure scenario is not yet available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Distillates (petroleum), hydrotreated heavy naphthenic	
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	5 mg/m ³
Belgium - Occupational Exposure Limits - TWAs	5 mg/3
Belgium - Occupational Exposure Limits - STELs	10 mg/m ³
Czech Republic - Occupational Exposure Limits - TWAs	5 mg/m ³
Czech Republic - Occupational Exposure Limits - STEL	10 mg/m ³
Denmark - Occupational Exposure Limits - TWAs	1 mg/m ³
Estonia - Occupational Exposure Limits - TWAs	1 mg/m ³
Finland - Occupational Exposure Limits - TWAs	5 mg/m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	5 mg/m ³
Greece - Occupational Exposure Limits - TWAs:	5 mg/m ³
Hungary - Occupational Exposure Limits - TWAs (AKs)	5 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	5 mg/m ³
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	1 mg/m ³
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	3 mg/m ³
Netherlands - Occupational Exposure Limits - TWAs	5 mg/m ³
Norway - Occupational Exposure Limits - TWAs	1 mg/m ³
Poland - Occupational Exposure Limits - TWAs (NDSS)	5 mg/m ³
Romania - Occupational Exposure Limits - TWAs	5 mg/m ³
Romania - Occupational Exposure Limits - STELs	10 mg/m ³
Slovak Republic - Occupational Exposure Limits - TWAs	1 mg/m ³
Slovak Republic - Threshold Limit Values - STELs	3 mg/m ³
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	5 mg/m ³
Spain - Occupational Exposure Limits - STELs (VLA-ECs)	10 mg/m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	1 mg/m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	3 mg/m ³
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	5 mg/m ³
United Kingdom - Workplace Exposure Limits (WELs) - STELs	10 mg/m ³

1-Aminopropan-2-ol	
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	5.8 mg/m ³

1-Phenoxypropan-2-ol	
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed

Monoethanolamine	
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	2.5 mg/m ³

EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - STELs	7.6 mg/m ³
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	2.5 mg/m ³
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	7.6 mg/m ³ 4 X 15 min
Belgium - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Belgium - Occupational Exposure Limits - STELs	7.6 mg/m ³
Bulgaria - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Bulgaria - Occupational Exposure Limits - STELs	7.6 mg/m ³
Czech Republic - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Denmark - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Finland - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Finland - Occupational Exposure Limits - STELs	7.6 mg/m ³
France - Occupational Exposure Limits - TWAs (VME)	2.5 mg/m ³
France - Occupational Exposure Limits - STELs (VLCT)	7.6 mg/m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	5.1 mg/m ³
Hungary - Occupational Exposure Limits - TWAs (AKs)	2.5 mg/m ³
Hungary - Occupational Exposure Limits - STELs (CKs)	7.6 mg/m ³
Italy - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Italy - Occupational Exposure Limits - STELs	7.6 mg/m ³
Latvia - Occupational Exposure Limits - TWAs	0.5 mg/m ³
Latvia - Occupational Exposure Limits - STELs	7.6 mg/m ³
Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	8 mg/m ³
Lithuania - Occupational Exposure Limits - STELs (TPRDs)	15 mg/m ³
Luxembourg - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Luxembourg - Occupational Exposure Limits - STELs	7.6 mg/m ³
Netherlands - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Netherlands - Occupational Exposure Limits - STELs	7.6 mg/m ³
Norway - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Norway - Occupational Exposure Limits - STELs	5 mg/m ³
Poland - Occupational Exposure Limits - TWAs (NDSs)	2.5 mg/m ³
Poland - Occupational Exposure Limits - STELs (NDSChs)	7.5 mg/m ³
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	1 ppm 2.5 mg/m ³
Portugal - Occupational Exposure Limits - STELs (VLE-CDs)	3 ppm 7.6 mg/m ³
Romania - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Romania - Occupational Exposure Limits - STELs	7.6 mg/m ³
Slovak Republic - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Slovenia - Occupational Exposure Limits - TWAs	2.5 mg/m ³
Slovenia - Occupational Exposure Limits - STELs	7.5 mg/m ³
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	2.5 mg/m ³
Spain - Occupational Exposure Limits - STELs (VLA-ECs)	7.5 mg/m ³
Sweden - Occupational Exposure Limits - TLVs (LLVs)	8 mg/m ³
Sweden - Occupational Exposure Limits - STELs (STVs)	15 mg/m ³
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	2.5 mg/m ³
United Kingdom - Workplace Exposure Limits (WELs) - STELs	7.6 mg/m ³

Sulfonic acids, petroleum, sodium salts

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed

Pyridine-2-thiol 1-oxide, sodium salt

EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	Not listed
EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	Not listed
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	1 mg/m ³

Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	4 mg/m ³ 4 X 15 min
Denmark - Occupational Exposure Limits - TWAs	1 mg/m ³
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	1 mg/m ³
Slovenia - Occupational Exposure Limits - TWAs	1 mg/m ³
Slovenia - Occupational Exposure Limits - STELs	4 mg/m ³

8.2. Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures to prevent exposure:

Ensure adequate ventilation, especially in confined areas

8.2.2 Personal protection equipment:



8.2.2.1 Eye and face protection:

Safety glasses with side-shields.

8.2.2.2 Skin protection:

Hand protection:

Neoprene gloves

Other skin protection:

Long sleeved clothing

8.2.2.3 Respiratory protection:

Adequate ventilation is recommended.

8.2.2.4 Thermal hazards:

Product represents no thermal hazards.

8.2.3 Environmental exposure controls:

Technical measures to prevent exposure:

Do not flush into surface water or sanitary sewer system

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance

Colour:

Light amber

Physical state:

Liquid

b) Odour

Characteristic

c) Odour threshold

Mild odour

d) pH	9.70
e) Melting point / freezing point (°C)	No data available
f) Initial boiling point and boiling range (°C)	100
g) Flash point (°C)	Not applicable - boils at 100°C (product contains water)
h) Evaporation rate (BuAc = 1)	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure (kPa)	No data available
l) Vapour density (air=1)	No data available
m) Relative density (g/cm ³) at (°C)	1.012 30
n) Solubility(ies) in water	Emulsifies
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature (°C)	No data available
q) Decomposition temperature (°C)	No data available
r) Viscosity (mm ² /s) at (°C)	29.1 40
s) Explosive properties	Product is not explosive.
t) Oxidising properties	Product is not an oxidiser.

9.2. Other information

a) Pourpoint (°C)	<4
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Stable under recommended storage conditions

10.4. Conditions to avoid

None known

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

None under normal use

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product data:

ATEmix - Oral (mg/kg): >2000
ATEmix - Dermal (mg/kg): >2000
ATEmix - Inhalation (mg/l/4 h - vapours): >20

Component data:

Components	LD50 - Oral, Rat (mg/kg)	LD50 - Dermal, Rabbit (mg/kg)	LC50 - Inhalation, Rat, 4h (mg/l)
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	>2000	No data available	>5.53
1-Aminopropan-2-ol 78-96-6	2813	No data available	No data available
1-Phenoxypropan-2-ol 770-35-4	>2000	No data available	>5.4
Monoethanolamine 141-43-5	1089	1000	1.5
Sulfonic acids, petroleum, sodium salts 68608-26-4	>2000	No data available	>20
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	1208	No data available	>2 - 20

Skin corrosion/irritation

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Serious eye damage/irritation

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Respiratory or skin sensitisation

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Germ cell mutagenicity

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
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Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Carcinogenicity

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Reproductive toxicity

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available

Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Summary of evaluation of the CMR properties

Product data:

Results: No data available

STOT - single exposure

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

STOT - repeated exposure

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts						No data available

68608-26-4						
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

Aspiration hazard

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5						No data available
1-Aminopropan-2-ol 78-96-6						No data available
1-Phenoxypropan-2-ol 770-35-4						No data available
Monoethanolamine 141-43-5						No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4						No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2						No data available

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Product data:

LC50 (Fish - 96h): 10 - 100 mg/l

EC50 (Water Flea - 48h): 10 - 100 mg/l

IC50 (Algae - 72h): 10 - 100 mg/l

Component data:

Components	LC50 (Fish - 96h)	EC50 (Water Flea - 48h)	IC50 (Algae - 72h)
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	>100 mg/l	>100 mg/l	>100 mg/l
1-Aminopropan-2-ol 78-96-6	2520 mg/L (Pimephales promelas)	109 mg/L (Daphnia magna Straus)	32.7 mg/L (Scenedesmus subspicatus)
1-Phenoxypropan-2-ol 770-35-4	>100 mg/l (Pimephales promelas)	>100 mg/l (Daphnia magna)	>100 mg/l (Desmodesmus subspicatus)
Monoethanolamine 141-43-5	114-196 mg/L (Oncorhynchus mykiss) 300-1000 mg/L (Lepomis macrochirus) 227 mg/L (Pimephales promelas) 3684 mg/L (Brachydanio rerio) 200 mg/L (Oncorhynchus mykiss)	65 mg/L (Daphnia magna)	15 mg/L (Desmodesmus subspicatus)
Sulfonic acids, petroleum, sodium salts	>100 mg/l	>100 mg/l	>100 mg/l

68608-26-4			
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	0.00264 mg/l (Oncorhynchus mykiss)	0.0088 mg/l (Daphnia magna)	0.46 mg/l (Selenastrum capricornutum)

Chronic (long-term) toxicity

Product data:

LC50 (Fish - 96h): 10 - 100 mg/l
 EC50 (Water Flea - 48h): 10 - 100 mg/l
 IC50 (Algae - 72h): 10 - 100 mg/l

Biodegradation: No data available
 Partition coefficient n-octanol /water (log Kow): No data available
 Bioconcentration factor (BCF): No data available

Component data:

Components	LC50 (Fish - 96h)	EC50 (Water Flea - 48h)	IC50 (Algae - 72h)
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	>100 mg/l	>100 mg/l	>100 mg/l
1-Aminopropan-2-ol 78-96-6	2520 mg/L (Pimephales promelas)	109 mg/L (Daphnia magna Straus)	32.7 mg/L (Scenedesmus subspicatus)
1-Phenoxypropan-2-ol 770-35-4	>100 mg/l (Pimephales promelas)	>100 mg/l (Daphnia magna)	>100 mg/l (Desmodesmus subspicatus)
Monoethanolamine 141-43-5	114-196 mg/L (Oncorhynchus mykiss) 300-1000 mg/L (Lepomis macrochirus) 227 mg/L (Pimephales promelas) 3684 mg/L (Brachydanio rerio) 200 mg/L (Oncorhynchus mykiss)	65 mg/L (Daphnia magna)	15 mg/L (Desmodesmus subspicatus)
Sulfonic acids, petroleum, sodium salts 68608-26-4	>100 mg/l	>100 mg/l	>100 mg/l
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	0.00264 mg/l (Oncorhynchus mykiss)	0.0088 mg/l (Daphnia magna)	0.46 mg/l (Selenastrum capricornutum)

Components	Biodegradation	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	No data available	6.006	No data available
1-Aminopropan-2-ol 78-96-6	No data available	-0.93	0.11
1-Phenoxypropan-2-ol 770-35-4	No data available	No data available	No data available
Monoethanolamine 141-43-5	No data available	<3.0	<=100
Sulfonic acids, petroleum, sodium salts 68608-26-4	No data available	No data available	No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	No data available	-2.64	No data available

12.2 Persistence and degradability

Product data:

Abiotic Degradation: No data available
 Physical- and photo-chemical elimination: No data available

Biodegradation: No data available

Component data:

Components	Abiotic Degradation	Physical- and photo-chemical elimination	Biodegradation
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	No data available	No data available	No data available
1-Aminopropan-2-ol 78-96-6	No data available	No data available	No data available
1-Phenoxypropan-2-ol 770-35-4	No data available	No data available	No data available
Monoethanolamine 141-43-5	No data available	No data available	No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4	No data available	No data available	No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	No data available	No data available	No data available

12.3 Bioaccumulative potential

Product data:

Partition coefficient n-octanol /water No data available

(log Kow):

Bioconcentration factor (BCF) No data available

Component data:

Components	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	6.006	No data available
1-Aminopropan-2-ol 78-96-6	-0.93	0.11
1-Phenoxypropan-2-ol 770-35-4	No data available	No data available
Monoethanolamine 141-43-5	<3.0	<=100
Sulfonic acids, petroleum, sodium salts 68608-26-4	No data available	No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	-2.64	No data available

12.4 Mobility in soil

Product data:

Known or predicted distribution to environmental compartments: No data available

Surface tension: No data available

Component data:

Components	Known or predicted distribution to environmental compartments	Surface tension
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	No data available	No data available
1-Aminopropan-2-ol 78-96-6	No data available	No data available
1-Phenoxypropan-2-ol	No data available	No data available

770-35-4		
Monoethanolamine 141-43-5	No data available	No data available
Sulfonic acids, petroleum, sodium salts 68608-26-4	No data available	No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	No data available	No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

12.7 Additional information

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product / Packaging disposal:

Packaging data:

Recycling: Use a European return program for empty packaging. For example: ncg-europe.com.

Product data:

Waste codes / waste designations according to LoW:

As delivered: 16 03 - off-specification batches and unused products
16 03 05* - organic wastes containing hazardous substances

SECTION 14: Transport information

14.1. UN number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class(es)

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental hazards

Not regulated

14.6. Special precautions for user

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not regulated

SECTION 15: Regulatory information

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

EU regulations

Authorisations and/or restrictions on use

Authorisations:

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

ANNEX XIV - LIST OF SUBSTANCES SUBJECT TO AUTHORISATION

Product does not contain components as mentioned in this ANNEX.

Restrictions on use:

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

ANNEX XIII - CRITERIA FOR THE IDENTIFICATION OF PERSISTENT, BIOACCUMULATIVE AND TOXIC SUBSTANCES, AND VERY PERSISTENT AND VERY BIOACCUMULATIVE SUBSTANCES

Product does not contain components as mentioned in this ANNEX.

ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

Product does not contain components as mentioned in this ANNEX.

Components	EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances
Distillates (petroleum), hydrotreated heavy naphthenic 64742-52-5	Use restricted. See item 28.

Other EU regulations

REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents

Product is not subject to this regulation.

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals

Product does not contain components as mentioned in this regulation.

COUNCIL REGULATION (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Product does not contain components as mentioned in this regulation.

REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer

Product does not contain components as mentioned in this regulation.

REGULATION (EU) No 98/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2013 on the marketing and use of explosives precursors

Product does not contain components as mentioned in this regulation.

Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (notified under document number C(2000) 1147) (Text with EEA relevance) (2000/532/EC)

Waste codes / waste designations according to LoW:

As delivered: 16 03 - off-specification batches and unused products
16 03 05* - organic wastes containing hazardous substances

COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items

Product does contain components as mentioned in this regulation.

National regulations

In France

Product data:

Tableaux de maladies professionnelles: 36, 49, 84

In Germany

Product data:

Water hazard classes (Wassergefährdungsklassen): 1 (S)

In Italy

Product data:

Altre disposizioni di normativa vigente: limite di soglia (LTV) ed indicatori biologici di esposizione (IBE) ACGIH 2001 Protezione dei lavoratori contro i rischi derivanti dall'esposizione ad agenti chimici, fisici e biologici durante il lavoro (DL212 del 30/07/90)

Norme generali per l'igiene sul lavoro (DPR 303 del 19/3/56)
Regolamenti e tabelle sulle malattie professionali nell'industria (DPR 336 del 13/04/94)
D.Lgs. 81/2008 del 9 Aprile 2008 e successive modifiche
Rischi incidenti rilevanti (Seveso bis - DL 334/99)
Norme sugli scarichi (DM 51 del 12/7/90)
Norme sull'inquinamento atmosferico (DPR del 12/7/90 e del 25/7/91)
Norme per la tutela delle acque (DL 152 del 11/5/99)
Norme sullo smaltimento e sul trasporto dei rifiuti pericolosi (DL 22/97 e 389/97)
Norme sul trasporto via terra ADR/RID (recepimento dir. CE 94/55): DM del 04/09/96 e attuazioni
Testo unico su classificazione, imballaggio ed etichettatura sostanze pericolose con recepimento fino alla Direttiva 2004/73/CE (29° adeguamento al progresso tecnico della direttiva 67/548/CE)
Norme per la compilazione della Scheda di Sicurezza con recepimento della direttiva 2001/58/EC

In Poland

Product data:

The 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC of the trades and repealing the trades the Regulation repealing Council Regulation (EEC) nr 793/93 the regulation lation (EC) nr 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended Regulation of the European Parliament and of the Council (EC) nr 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing the Directives 1999/45/EC, Directive 67/548/EEC and amending the Regulation (EC) nr 1907/2006, with changes. Ordinance of the Minister of Health of 30 December 2004 on safety and health relationship are tied to the existence of chemical agents (Dz.U.2005nr11poz.86), as amended. The Act of 25 February 2011 chemical substances and mixtures (Dz.U.2011nr63poz.322) Ordinance of the Minister of Health of 20 April 2012 on the labeling of chemical substances and mixtures, and certain mixtures (Dz.U.2012nr0poz.445) Ordinance of the Minister of Labour and Social Policy of 29 November 2002 on maximum permissible concentration assumptions Nate assumptions of harmful factors in the working environment (Dz.U.2002nr217poz.1833), as amended The Act of 27 April 2001 r.o waste (Dz.U.2001 No. 62 item 628). Ordinance of the Minister of Environment of 27 September 2001. on waste (Dz.U.Nr112, item 1206). Regulation (EU) No 453/2010 of 20 May 2010 amending the CYM The 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)

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Indication of changes

Version:	1
Revision date:	10/14/2016
Reason for revision:	New formulation
Print date:	10/14/2016

Abbreviations and acronyms

CLP - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
REACH - Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals

Key literature references and sources for data

Compilation of safety data sheet:

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Amended by:

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)

Classification procedure: Calculation method

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Training advice

The information contained in this safety data sheet must be available to the professional user. The professional user of this product must be adequately informed about the possible hazards of this product. The professional user of this product must be adequately trained in the safe handling and use of chemical products.

Further information

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Quaker Chemical Corporation ("Quaker") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Quaker.