

SAFETY DATA SHEET
according to Regulation (EC) No 1907/2006
as amended by Regulation (EC) No 453/2010

Print date:
06/08/2015

Version:
1

Revision date:
06/08/2015

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

1.1. Product identifier

Product trade name: **QUAKERCOOL 42i**

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

Application

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
P.O.Box 39, 1420 AA 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
P.O.Box 39, 1420 AA 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	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

Classification procedure: Calculation method

2.2. Label elements



Signal Word

DANGER

Hazard Statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear 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

P273 - Avoid release to the environment

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: water, amine, ester, salt, additives.

Hazardous ingredients:

Components	EC No	Index No.	REACH Registration No.	Weight %	Classification according to Regulation (EC) No 1272/2008 (CLP)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	266-235-8			1 - 5	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Corr. 1C (H314)
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	223-296-5		01-2119493385-28	< 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)

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:	Not hazardous by skin contact.
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:	There are no symptoms or effects reported.
Delayed:	There are no symptoms or effects reported.

Following eye contact:

Acute:	Redness, Burns, Pain, Impaired vision.
Delayed:	Redness, Burns, Pain, Impaired vision.

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:	Use dry chemical, CO2, water spray or "alcohol" foam
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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.

Further information on storage conditions: No data available

7.3. Specific end use(s)

Recommendations: See our technical data sheet.

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

In europe

Components	EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - STELs	EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - TWAs	EU - Occupational Exposure (2000/39/EC) - First List of Indicative Occupational Exposure Limit Values - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - STELs	EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values - STELs	EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values - TWAs	EU - Occupational Exposure (2009/161/EU) - Third List of Indicative Occupational Exposure Limit Values - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Austria

Components	Austria - Occupational Exposure Limits - Carcinogens	Austria - Occupational Exposure Limits - Ceilings - (MAKs)	Austria - Occupational Exposure Limits - Photosensitizers
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	Austria - Occupational Exposure Limits - Respiratory Sensitizers	Austria - Occupational Exposure Limits - Sensitizers	Austria - Occupational Exposure Limits - Skin Sensitizers
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	Austria - Occupational Exposure Limits - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	4 mg/m ³ 4 X 15 min	1 mg/m ³	skin notation

Components	Austria - Technical Exposure Limits - STELs (TRK-KZW)	Austria - Technical Exposure Limits - TWAs - (TRK-TMWs)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed

In Belgium

Components	Belgium - Occupational Exposure Limits - Asphyxiants	Belgium - Occupational Exposure Limits - Carcinogen Designations	Belgium - Occupational Exposure Limits - Protection of Maternity
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	Belgium - Occupational Exposure Limits - STELs	Belgium - Occupational Exposure Limits - TWAs	Belgium - Occupational Exposure Limits - Skin Designations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Bulgaria

Components	Bulgaria - Occupational Exposure Limits - Biological Exposure Limits	Bulgaria - Occupational Exposure Limits - Prohibited Substances
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed

Components	Bulgaria - Occupational Exposure Limits - STELs	Bulgaria - Occupational Exposure Limits - TWAs	Bulgaria - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In the Czech Republic

Components	Czech Republic - Occupational Exposure Limits - Sensitizers	Czech Republic - Occupational Exposure Limits - Substances with Potential Chronic Health Effects
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed

Components	Czech Republic - Occupational Exposure Limits - TWAs	Czech Republic - Occupational Exposure Limits - Ceilings	Czech Republic - Occupational Exposure Limits - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Denmark

Components	Denmark - Occupational Exposure Limits - STELs	Denmark - Occupational Exposure Limits - TWAs	Denmark - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	1 mg/m ³	Potential for cutaneous absorption

Components	Denmark - Occupational Exposure Limits - List of Organic Solvents - Tentative Limit Values	Denmark - Occupational Exposure Limits - List of Organic Solvents with TWA Values	Denmark - Occupational Exposure Limits - List of Substances Considered Carcinogenic
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Finland

Components	Finland - Occupational Exposure Limits - STELs	Finland - Occupational Exposure Limits - TWAs	Finland - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In France

Components	France - Occupational Exposure Limits - STELs (VLCT)	France - Occupational Exposure Limits - TWAs (VME)	France - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	France - Occupational Exposure Limits - Carcinogens	France - Occupational Exposure Limits - Mutagens	France - Occupational Exposure Limits - Reproductive Toxins
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	France - Occupational Exposure Limits - Sensitizers	France - Occupational Exposure Limits - Respiratory Sensitizers	France - Occupational Exposure Limits - Skin Sensitizers
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3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Germany

Components	Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	Germany - TRGS 900 - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	1 mg/m ³	skin notation

Components	Germany - TRGS 900 - Respiratory System Sensitizers	Germany - TRGS 900 - Skin Sensitizers
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed

In Hungary

Components	Hungary - Occupational Exposure Limits - STELs (CKs)	Hungary - Occupational Exposure Limits - TWAs (AKs)	Hungary - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	Hungary - Occupational Exposure Limits - Carcinogens	Hungary - Occupational Exposure Limits - Sensitizers
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed

In Italy

Components	Italy - Occupational Exposure Limits - STELs	Italy - Occupational Exposure Limits - TWAs	Italy - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

Components	Italy - Recommended Exposure Limits Based on ACGIH TLVs - Short Term Exposure Limit (STEL)	Italy - Recommended Exposure Limits Based on ACGIH TLVs - Time Weighted Averages (TWA)	Italy - Recommended Exposure Limits Based on ACGIH TLVs - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Latvia

Components	Latvia - Occupational Exposure Limits - STELs	Latvia - Occupational Exposure Limits - TWAs	Latvia - Occupational Exposure Limits - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Lithuania

Components	Lithuania - Occupational Exposure Limits - STELs (TPRDs)	Lithuania - Occupational Exposure Limits - TWAs (IPRDs)	Lithuania - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Luxembourg

Components	Luxembourg - Occupational Exposure Limits - STELs	Luxembourg - Occupational Exposure Limits - TWAs	Luxembourg - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In the Netherlands

Components	Netherlands - Occupational Exposure Limits - STELs	Netherlands - Occupational Exposure Limits - TWAs	Netherlands - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Norway

Components	Norway - Occupational Exposure Limits - STELs	Norway - Occupational Exposure Limits - TWAs	Norway - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Poland

Components	Poland - Occupational Exposure Limits - STELs (NDSChs)	Poland - Occupational Exposure Limits - TWAs (NDSs)	Poland - Occupational Exposure Limits - Ceiling Limits (NDSPs)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Portugal

Components	Portugal - Occupational Exposure Limits - STELs (VLE-CDs)	Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	Portugal - Occupational Exposure Limits - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Romania

Components	Romania - Occupational Exposure Limits - STELs	Romania - Occupational Exposure Limits - TWAs	Romania - Occupational Exposure Limits - Skin Notation

3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In the Slovak Republic

Components	Slovak Republic - Threshold Limit Values - STELs	Slovak Republic - Threshold Limit Values - TWAs	Slovak Republic - Threshold Limit Values - Skin Notation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Slovenia

Components	Slovenia - Occupational Exposure Limits - STELs	Slovenia - Occupational Exposure Limits - TWAs	Slovenia - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	4 mg/m ³	1 mg/m ³	Potential for cutaneous absorption

In Spain

Components	Spain - Occupational Exposure Limits - STELs (VLA-ECs)	Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	Spain - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In Sweden

Components	Sweden - Occupational Exposure Limits - STELs (STVs)	Sweden - Occupational Exposure Limits - TLVs (LLVs)	Sweden - Occupational Exposure Limits - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

In the United Kingdom

Components	United Kingdom - Workplace Exposure Limits (WELs) - STELs	United Kingdom - Workplace Exposure Limits (WELs) - TWAs	United Kingdom - Workplace Exposure Limits (WELs) - Skin Notations
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	Not listed	Not listed	Not listed
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	Not listed	Not listed	Not listed

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:

The use of safety glasses is recommended.

8.2.2.2 Skin protection:

Hand protection:

The use of chemical resistant gloves is recommended.

Other skin protection:

The use of long sleeved protective clothing is recommended.

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: Yellow
Physical state: Liquid

b) Odour Characteristic

c) Odour threshold Mild odour

d) pH 10.15

e) Melting point / freezing point (°C) 0

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)	1.082 15
n) Solubility(ies) in water	Soluble
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)	27.6 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)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	900	1207 - 1620	2
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	750	700	>2 - 20

Skin corrosion/irritation

Product data:

Results: No data available

Component data:

Components	Method	Species	Routes of exposure	Effective Dose	Exposure time	Results
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methyl oxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methyl oxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methyl oxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methylloxazolidine] 66204-44-2						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
3,3'-Methylenebis[5-methylloxazolidine] 66204-44-2						No data available
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
3,3'-Methylenebis[5-methylloxazolidine] 66204-44-2						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)	EC50 (Algae - 72h)
3,3'-Methylenebis[5-methylloxazolidine] 66204-44-2	57.7 mg/l (Brachydanio rerio)	37.9 mg/l (Daphnia magna)	5.7 mg/l (Desmodesmus subspicatus)

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)
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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

(log Kow):

Bioconcentration factor (BCF): No data available

Component data:

Components	LC50 (Fish - 96h)	EC50 (Water Flea - 48h)	EC50 (Algae - 72h)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	57.7 mg/l (Brachydanio rerio)	37.9 mg/l (Daphnia magna)	5.7 mg/l (Desmodesmus subspicatus)
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)
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	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

12.2 Persistence and degradability

Product data:

Abiotic Degradation: No data available

Physical- and photo-chemical elimination: No data available

Biodegradation: No data available

Biodegradation: No data available

Component data:

Components	Abiotic Degradation	Physical- and photo-chemical elimination	Biodegradation
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	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 (log Kow): No data available

(log Kow):

Bioconcentration factor (BCF): No data available

Component data:

Components	Partition coefficient n-octanol /water (log Kow)	Bioconcentration factor (BCF)
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3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	No data available	No data available
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2	No data available	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
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2	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: 12 01 10*
Used: No data available

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.

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 (EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 June 2008 concerning the export and import of dangerous 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: 12 01 10*

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 Austria

Component data:

In Belgium

Component data:

In the Czech Republic

Product data:

ACT 350 of 27 October 2011 on chemical substances and mixtures and amending certain Acts

In Denmark

Component data:

In Finland

Component data:

In France

Product data:

Tableaux de maladies professionnelles: 36, 49

Component data:

In Germany

Product data:

Water hazard classes (Wassergefährdungsklassen): 1(S)

Component data:

Components	Germany - Water Classification (VwVwS) - Annex 1	Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes	Germany - Water Classification (VwVwS) - Annex 3
3,3'-Methylenebis[5-methyloxazolidine] 66204-44-2			hazard class 1 - low hazard to waters
Pyridine-2-thiol 1-oxide, sodium salt 3811-73-2			hazard class 2 - hazard to waters

In Italy

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 Latvia

Component data:

In the Netherlands

Product data:

**De Algemene Beoordelingsmethodiek Water:
Saneringsinspanning:**

{ 11 } Weinig schadelijk voor in water levende organismen.
B

Component data:

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) nr1488/94, 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 grudnia 2004 on safety and health relationship are tied to the existence of chemical agents (Dz.U.2005nr11poz.86), as amended.

The Act of 25 lutego 2011 chemical substances and mixtures (Dz.U.2011nr63poz.322)

Ordinance of the Minister of Health of 20 kwietnia 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 2001r.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)

In Portugal

Component data:

In Sweden

Product data:

Kemikalieinspektionens föreskrifter (KIFS 2005:7) om klassificering och märkning av kemiska produkter

Kemikalieinspektionens föreskrifter (KIFS 2008:2) om kemiska produkter och biotekniska organismer

Component data:

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:	06/08/2015
Reason for revision:	SDS review
Print date:	06/08/2015

Abbreviations and acronyms

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)

Full text of H-Statements referred to under section 3

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

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.