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SECTION 1. IDENTIFICATION

Product identifier

Trade name : Amercor™ CNA6230
 CORROSION INHIBITOR
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 registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : BOILER WATER TREATMENT


Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) RegulatoryRequestsNA@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) Product Information Contact your local Solenis representative
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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids : Category 4
 Acute toxicity (Oral) : Category 4
 Acute toxicity (Inhalation) : Category 4
 Skin corrosion : Category 1
 Serious eye damage : Category 1
 Skin sensitisation : Category 1
 Carcinogenicity : Category 2
 Specific target organ toxicity : Category 3 (Respiratory system)
 - single exposure

GHS label elements

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Hazard pictograms :



Signal word :

Danger

Hazard statements :

H227 Combustible liquid.
 H302 + H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.

Precautionary statements :


Prevention:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components


Chemical name	CAS-No.	Classification	Concentration (%)
2-diethylaminoethanol	100-37-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 30 - < 40
METHOXYPROPYLAMINE	5332-73-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 10 - < 15
METHYL ETHYL KETONE OXIME	96-29-7	Flam. Liq. 4; H227 Acute Tox. 4; H312 Eye Dam. 1; H318 Skin Sens. 1; H317 Carc. 2; H351	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.


If inhaled : Move to fresh air.
IF INHALED: Call a POISON CENTER/ doctor if you feel unwell.

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In case of skin contact	: Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	: If on clothes, remove clothes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.
If swallowed	: Get medical attention immediately. Do NOT induce vomiting. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) Cough halo vision (blurred vision around bright objects) respiratory failure Difficulty in breathing Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency. Harmful if swallowed or if inhaled. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. Suspected of causing cancer. Causes severe burns.
Notes to physician	: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	: High volume water jet

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- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Ammonia
Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
methyl ethyl ketone
substituted amides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No sparking tools should be used.
Keep away from open flames, hot surfaces and sources of ignition.

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Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

- Advice on safe handling : Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.
 Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed.
 When diluting, always add the product to water. Never add water to the product.
 Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Observe label precautions.
 No smoking.
 Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-diethylaminoethanol	100-37-8	TWA	2 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z-1
		TWA	10 ppm 50 mg/m3	OSHA P0
METHOXYPROPYLAMINE	5332-73-0	TWA	5 ppm	US WEEL
		STEL	15 ppm	US WEEL

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METHYL ETHYL KETONE OXIME	96-29-7	TWA	10 ppm	US WEEL
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Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
 A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate:
 Impervious clothing
 Chemical resistant apron
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Wear resistant gloves (consult your safety equipment supplier).
 Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Wash hands before breaks and at the end of workday.
 When using do not eat or drink.
 Ensure that eyewash stations and safety showers are close to the workstation location.
 When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES


Appearance : liquid

Colour : amber

Odour : No data available

Odour Threshold : No data available

pH : 13.1

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Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : 161.8 °F / 72.1 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : 0.97 (68 °F / 20 °C)

Density : No data available

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 13 cps (68 °F / 20 °C)

Viscosity, kinematic : No data available

Oxidizing properties : No data available


SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : excessive heat
Exposure to moisture

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Incompatible materials : Heat, flames and sparks.
 Acids
 alkalis
 aluminum
 halogenated hydrocarbons
 nitrates
 organic solvent
 Oxidizing agents
 peroxides
 Aqueous solutions of this product corrode steel.

Hazardous decomposition products : Carbon monoxide
 Carbon dioxide (CO₂)
 Nitrogen oxides (NO_x)
 nitrogen oxides
 methyl ethyl ketone
 substituted amides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Components:

2-diethylaminoethanol:

Acute oral toxicity : LD50 (Rat): 1,320 mg/kg ca.

Acute inhalation toxicity : LC50 (Rat): ca. 4.6 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour

Acute dermal toxicity : LD50 (Guinea pig): ca. 885 mg/kg

METHOXYPROPYLAMINE:

Acute oral toxicity : LD50 (Rat, male and female): 688.1 mg/kg
 Method: OECD Test Guideline 401
 GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): ca. > 2,000 mg/kg
 Method: OECD Test Guideline 402
 GLP: yes
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.

METHYL ETHYL KETONE OXIME:

Acute oral toxicity : LD50 (Rat, male): 2,326 mg/kg

Acute inhalation toxicity : LC 50 (Rat): > 4,830 mg/l
 Exposure time: 4 h

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Test atmosphere: vapour
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 1,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks : May cause skin irritation in susceptible persons.
Causes severe skin burns and eye damage.

Components:**2-diethylaminoethanol:**

Species : Rabbit
Result : Corrosive after 3 minutes to 1 hour of exposure

METHOXYPROPYLAMINE:

Species : Rabbit
Result : Corrosive after 3 minutes or less of exposure

METHYL ETHYL KETONE OXIME:

Species : Rabbit
Result : Slightly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:


Remarks : May cause irreversible eye damage.

Components:**2-diethylaminoethanol:**

Species : Rabbit
Result : Corrosive to eyes

METHOXYPROPYLAMINE:

Species : Rabbit
Result : Corrosive to eyes
GLP : yes

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METHYL ETHYL KETONE OXIME:

Species : Rabbit
 Result : Corrosive to eyes
 Method : OECD Test Guideline 405
 GLP : yes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : May cause allergic skin reaction.

Components:

2-diethylaminoethanol:

Test Type : Maximisation Test
 Species : Guinea pig
 Method : OECD Test Guideline 406
 Result : Did not cause sensitisation on laboratory animals.

METHOXYPROPYLAMINE:

Test Type : Buehler Test
 Exposure routes : Dermal
 Species : Guinea pig
 Method : OECD Test Guideline 406
 GLP : yes

METHYL ETHYL KETONE OXIME:

Test Type : Buehler Test
 Exposure routes : Skin contact
 Species : Guinea pig
 Method : OECD Test Guideline 406
 GLP : yes


Germ cell mutagenicity

Not classified based on available information.

Components:

2-diethylaminoethanol:

Genotoxicity in vitro : Test Type: Ames test
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

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Test system: Chinese hamster lung cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes

Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Species: Mouse
 Method: OECD Test Guideline 474
 Result: negative

METHOXYPROPYLAMINE:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Test system: mouse lymphoma cells
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

Test Type: Ames test
 Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: negative

Test Type: unscheduled DNA synthesis assay
 Test system: rat hepatocytes
 Method: OECD Test Guideline 482
 Result: negative


Genotoxicity in vivo : Test Type: In vivo micronucleus test
 Species: Mouse
 Method: OECD Test Guideline 474
 Result: negative
 GLP: yes

METHYL ETHYL KETONE OXIME:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Test system: mouse lymphoma cells
 Metabolic activation: without metabolic activation
 Method: OECD Test Guideline 476
 Result: positive

Test Type: In vitro mammalian cell gene mutation test
 Test system: mouse lymphoma cells
 Metabolic activation: with metabolic activation
 Method: OECD Test Guideline 476
 Result: negative

Test Type: unscheduled DNA synthesis assay
 Test system: rodent hepatocytes
 Method: OECD Test Guideline 482

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Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Species: Drosophila melanogaster (vinegar fly) (male)
Result: negative

Test Type: chromosome aberration assay
Species: Rat (male and female)
Application Route: Oral
Method: OPPTS 870.5385
Result: negative
GLP: yes

Carcinogenicity

Suspected of causing cancer.

Components:

METHYL ETHYL KETONE OXIME:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

2-diethylaminoethanol:


Target Organs : Respiratory system

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 1,000 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 170 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 109 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.


Components:

2-diethylaminoethanol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 147 mg/l
 Exposure time: 96 h
 Test Type: static test
 Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 83.6 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 5 mg/l
 End point: Growth inhibition

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Exposure time: 72 h
 Test Type: static test
 Method: DIN 38412

EC50 (Desmodesmus subspicatus (green algae)): 44 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: DIN 38412

Toxicity to microorganisms : EC20 (activated sludge): > 1,000 mg/l
 Exposure time: 30 min
 Method: OECD Test Guideline 209

METHOXYPROPYLAMINE:


Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 146.6 mg/l
 Exposure time: 96 h
 Test Type: static test
 Analytical monitoring: no
 Test substance: Non neutralised product
 Method: DIN 38412
 GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 65 mg/l
 Exposure time: 48 h
 Test Type: static test
 Analytical monitoring: yes
 Method: OECD Test Guideline 202
 GLP: yes
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : ErC50 (green algae): 44 mg/l
 Exposure time: 72 h
 Test Type: static test
 Analytical monitoring: yes
 Method: OECD Test Guideline 201
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 3.7 mg/l
 Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Toxicity to microorganisms : (Pseudomonas putida): Exposure time: 17 h
 Test Type: Static
 Analytical monitoring: no
 Method: DIN 38 412 Part 8
 GLP: no
 Remarks: Information given is based on data obtained from similar substances.

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Ecotoxicology Assessment

Chronic aquatic toxicity : No toxicity at the limit of solubility

METHYL ETHYL KETONE OXIME:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 693 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 750.8 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 11.8 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

NOEC (Scenedesmus capricornutum (fresh water algae)): 2.56 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC (Oryzias latipes (Orange-red killifish)): 50 mg/l
Exposure time: 14 d
Test Type: flow-through test
Method: OECD Test Guideline 204
GLP: yes


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 100 mg/l
End point: Reproduction Test
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

Persistence and degradability

Components:

2-diethylaminoethanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301A
GLP: yes

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METHOXYPROPYLAMINE:

Biodegradability : Inoculum: activated sludge
 Result: Not readily biodegradable.
 Biodegradation: 57 %
 Exposure time: 56 d
 Method: OECD Test Guideline 301F
 GLP: yes
 Remarks: Inherently biodegradable.

METHYL ETHYL KETONE OXIME:

Biodegradability : Biodegradation: 24.7 %
 Exposure time: 28 d
 Method: OECD Test Guideline 302C

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
 59 mg/l

Chemical Oxygen Demand (COD) : 880,000 mg/l
 Method: Chemical oxygen demand

Bioaccumulative potential

Components:

2-diethylaminoethanol:

Bioaccumulation : Bioconcentration factor (BCF): 0.85

Partition coefficient: n-octanol/water : log Pow: 0.21 (73 °F / 23 °C)
 Method: OECD Test Guideline 107

METHOXYPROPYLAMINE:

Bioaccumulation : Species: Cyprinus carpio (Carp)
 Bioconcentration factor (BCF): < 0.3
 Exposure time: 42 d
 Concentration: 1 mg/l
 Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: -0.5 (77 °F / 25 °C)

METHYL ETHYL KETONE OXIME:


Partition coefficient: n-octanol/water : Pow: 0.65 (77 °F / 25 °C)

Mobility in soil

No data available

Other adverse effects

Product:

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Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN number : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s. (DIETHYL ETHANOLAMINE, 3-METHOXYPROPYLAMINE)
Class : 8
Packing group : II
Packing instruction (cargo aircraft) : 855
Packing instruction (passenger aircraft) : 851

IMDG-Code

UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S. (DIETHYL ETHANOLAMINE, 3-METHOXYPROPYLAMINE)
Class : 8
Packing group : II
EmS Code : F-A, S-B
Marine pollutant : no


Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s. (DIETHYL ETHANOLAMINE, 3-METHOXYPROPYLAMINE)
Class : 8

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Packing group : II
 ERG Code : 153
 Marine pollutant : no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
 Acute toxicity (any route of exposure)
 Respiratory or skin sensitization
 Carcinogenicity
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory
 TSCA : All substances listed as active on the TSCA inventory
 AIIC : On the inventory, or in compliance with the inventory
 DSL : All components of this product are on the Canadian DSL
 ENCS : On the inventory, or in compliance with the inventory
 KECI : On the inventory, or in compliance with the inventory

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PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information


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Full text of H-Statements

- H226 : Flammable liquid and vapour.
- H227 : Combustible liquid.
- H302 : Harmful if swallowed.
- H311 : Toxic in contact with skin.
- H312 : Harmful in contact with skin.
- H314 : Causes severe skin burns and eye damage.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H331 : Toxic if inhaled.
- H335 : May cause respiratory irritation.
- H351 : Suspected of causing cancer.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Carc. : Carcinogenicity
- Eye Dam. : Serious eye damage
- Flam. Liq. : Flammable liquids
- Skin Corr. : Skin corrosion
- Skin Sens. : Skin sensitisation
- STOT SE : Specific target organ toxicity - single exposure
- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)
- ACGIH / TWA : 8-hour, time-weighted average
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA Z-1 / TWA : 8-hour time weighted average
- US WEEL / TWA : 8-hr TWA

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US WEEL / STEL : Short-Term TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data


SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

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

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