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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Amercor™ 8750
CORROSION INHIBITOR
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use


Details of the supplier of the safety data sheet Solenis LLC 500 Hercules Road Wilmington Delaware 19808 United States of America RegulatoryRequestsNA@solenis.com	Emergency telephone number 1-844-SOLENIS (844-765-3647) / 606-329-5705 Product Information 1-844-SOLENIS (844-765-3647)
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

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

GHS Label element

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- Hazard pictograms :     
- Signal Word : Danger
- Hazard Statements : Flammable liquid and vapor.
 Harmful if swallowed or if inhaled.
 Toxic in contact with skin.
 Causes severe skin burns and eye damage.
 Causes serious eye damage.
 May cause respiratory irritation.
 Suspected of damaging fertility or the unborn child.
- Precautionary Statements : **Prevention:**
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep container tightly closed.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Wash skin thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
 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 or doctor/ physician.
 IF exposed or concerned: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.

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Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture


Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
CYCLOHEXYLAMINE	108-91-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 Repr. 2; H361 STOT SE 3; H335	>= 40.00 - < 50.00
MORPHOLINE	110-91-8	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 40.00 - < 50.00

Trade Secret Composition - Conceal the Identity + Concentration

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

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Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Symptoms of poisoning may appear several hours later.
 Do not leave the victim unattended.

- If inhaled : Move to fresh air.
 IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
 Keep patient warm and at rest.
 If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
 If on skin, rinse well with water.
 Wash contaminated clothing before re-use.
 If on clothes, remove clothes.
- In case of eye contact : 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 : 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.
 Pulmonary edema may be 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
 nervousness
 effects on blood pressure
 chest pain
 halo vision (blurred vision around bright objects)
 loss of coordination
 methemoglobinemia (blood abnormality which causes a blue coloring to the skin)
 lung edema (fluid buildup in the lung tissue)
 Harmful if swallowed or if inhaled
 Toxic in contact with skin.

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Causes serious eye damage.
 May cause respiratory irritation.
 Suspected of damaging fertility or the unborn child.
 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
 Alcohol-resistant foam
 Carbon dioxide (CO₂)
 Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.
 Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
 Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Ammonia
 carbon dioxide and carbon monoxide
 Cyanides
 toxic fumes
 various hydrocarbons
 Nitrogen oxides (NO_x)
 formaldehyde
 nitrogen compounds
- 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.


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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. |
| 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). |
| Other information | : Comply with all applicable federal, state, and local regulations.
Suppress (knock down) gases/vapours/mists with a water spray jet. |

SECTION 7. HANDLING AND STORAGE

- | | |
|-----------------------------|---|
| Advice on safe handling | : Open drum carefully as content may be under pressure.
Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Container hazardous when empty.
Take precautionary measures against static discharges.
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.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
No smoking.
Prevent unauthorized access.
Electrical installations / working materials must comply with |

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the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
CYCLOHEXYLAMINE	108-91-8	TWA	10 ppm	PY OEL
		TWA	10 ppm	ACGIH
		REL	10 ppm 40 mg/m ³	NIOSH/GUID E
		TWA	10 ppm 40 mg/m ³	TN OEL
MORPHOLINE	110-91-8	TWA	20 ppm	ACGIH
		REL	20 ppm 70 mg/m ³	NIOSH/GUID E
		STEL	30 ppm 105 mg/m ³	NIOSH/GUID E
		PEL	20 ppm 70 mg/m ³	OSHA_TRANS
		TWA	20 ppm 70 mg/m ³	TN OEL
		STEL	30 ppm 105 mg/m ³	TN OEL

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 : 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.

In the case of vapour formation use a respirator with an approved filter.

Hand protection
Remarks

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

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- Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.
- Skin and body protection : Wear resistant gloves (consult your safety equipment supplier).
Wear as appropriate:
impervious clothing
Chemical resistant apron
Safety shoes
Flame-resistant clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
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

- Physical state : liquid
- Colour : white, yellow
- Odour : No data available
- Odour Threshold : No data available
- pH : 11 - 14
- Melting point/freezing point : -53 °F / -47 °C
- Flash point : 212 °F / 100 °C
(1,013 hPa)
Calculated Phase Transition Liquid/Gas
: 113.0 °F / 45.0 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : 11.2 %(V)
Calculated Explosive Limit
- Lower explosion limit : 1.4 %(V)
Calculated Explosive Limit

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Vapour pressure	: 23.33 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: > 1AIR=1
Relative density	: No data available
Density	: 0.965 - 0.980 g/cm3
Solubility(ies)	
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
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	: Heat, flames and sparks. Heat, flames and sparks.
Incompatible materials	: Acids acrylates Alcohols Aldehydes aluminum Copper Copper alloys galvanized metals glycols halogenated hydrocarbons isocyanates Ketones

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Metals
 nitrites and other nitrosating agents
 organic anhydrides
 phenols
 Reducing agents
 Strong oxidizing agents
 Zinc

Hazardous decomposition products

Amines
 carbon dioxide and carbon monoxide
 Cyanides
 formaldehyde-like
 nitrogen compounds
 Nitrogen oxides (NOx)
 Ammonia

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
 Skin Absorption
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Harmful if swallowed or if inhaled
 Toxic in contact with skin.

Components:

CYCLOHEXYLAMINE:

Acute oral toxicity : LD 50 (Rat): 432 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 7.5 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour

Acute dermal toxicity : LD 50 (Rabbit): ca. 275 mg/kg

MORPHOLINE:

Acute oral toxicity : LD50 (Rat): ca. 1,900 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC 50 (Rat): 8000 ppm
 Exposure time: 8 h

Acute dermal toxicity : LD 50 (Rabbit): ca. 500 mg/kg

Skin corrosion/irritation

Causes severe burns.

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Product:

Result: Causes severe burns.

Remarks: Causes severe skin burns and eye damage.

Components:

CYCLOHEXYLAMINE:

Result: Corrosive after 3 minutes or less of exposure

MORPHOLINE:

Result: Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result: Causes severe burns.

Remarks: May cause irreversible eye damage.

Components:

CYCLOHEXYLAMINE:

Result: Corrosive to eyes

MORPHOLINE:

Result: Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Components:

CYCLOHEXYLAMINE:

Genotoxicity in vitro

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


: Test species: Chinese hamster ovary cells
Method: OPPTS 870.5300

: Test species: rat hepatocytes
Method: OPPTS 870.5550

MORPHOLINE:

Genotoxicity in vitro

: Test Type: unscheduled DNA synthesis assay
Test species: rat hepatocytes
Metabolic activation: without metabolic activation

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Method: OECD Test Guideline 482
 Result: negative

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

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

CYCLOHEXYLAMINE:

Reproductive toxicity - Assessment : Suspected human reproductive toxicant

STOT - single exposure

May cause respiratory irritation.

Components:

CYCLOHEXYLAMINE:

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: Solvents may degrease the skin.

Carcinogenicity:

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 identified as a carcinogen or potential carcinogen by OSHA.

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.

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SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity**Product:**

- Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 141 mg/l
 Exposure time: 96 h
 Test Type: static test
- LC 50 (Pimephales promelas (fathead minnow)): 122 mg/l
 Exposure time: 96 h
 Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 88.4 mg/l
 Exposure time: 48 h
 Test Type: static test

Components:**CYCLOHEXYLAMINE:**

- Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Test substance: Neutralised product
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 36.3 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 202
 GLP: yes
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 29.3 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes
- NOEC (Pseudokirchneriella subcapitata (green algae)): 10.3 mg/l
 End point: Growth inhibition
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1.6 mg/l
 Exposure time: 21 d
 End point: Reproduction Test
 Test Type: semi-static test
 Method: OECD Test Guideline 211

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GLP: yes

Toxicity to bacteria : EC10 (activated sludge): 326 mg/l
Exposure time: 3 h
Test Type: Static
Method: ISO 8192
GLP:

Persistence and degradability

Product:

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
615 mg/l
Chemical Oxygen Demand (COD) : 647 mg/l
Method: Chemical oxygen demand

Components:

CYCLOHEXYLAMINE:

Biodegradability : Result: Readily biodegradable
Biodegradation: 92 %
Exposure time: 20 d
Method: Directive 67/548/EEC Annex V, C.4.E.

MORPHOLINE:

Biodegradability : Result: Readily biodegradable
Biodegradation: 92.6 %
Exposure time: 22 d
Method: OECD Test Guideline 301E

Bioaccumulative potential

Components:

CYCLOHEXYLAMINE:

Partition coefficient: n-octanol/water : log Pow: Calculated 1.49

MORPHOLINE:

Partition coefficient: n-octanol/water : log Pow: -0.86

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological information : No data available

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Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- General advice : 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.
- Dispose of in accordance with all applicable local, state and federal regulations.
- 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 transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD


UN 2734	Amines, liquid, corrosive, flammable, n.o.s. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II	
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U.S. DOT - RAIL

UN 2734	Amines, liquid, corrosive, flammable, n.o.s. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II	
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U.S. DOT - INLAND WATERWAYS

UN 2734	Amines, liquid, corrosive, flammable, n.o.s. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II	
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TRANSPORT CANADA - ROAD

UN	2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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TRANSPORT CANADA - RAIL

UN	2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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TRANSPORT CANADA - INLAND WATERWAYS

UN	2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	2734	AMINES, LIQUID, CORROSIVE, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO


UN	2734	Amines, liquid, corrosive, flammable, n.o.s. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	2734	Amines, liquid, corrosive, flammable, n.o.s. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	2734	AMINAS LIQUIDAS, CORROSIVAS, INFLAMABLES, N.E.P. (CYCLOHEXYLAMINE, MORPHOLINE)	8	(3)	II
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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
BENZENE	71-43-2	10	500000

SARA 311/312 Hazards : Acute Health Hazard
Chronic Health Hazard
Fire Hazard

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.
Component(s)SARA 313

California Prop 65 Proposition 65 warnings are not required for this product based on the results of a risk assessment.

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

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

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

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


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

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

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

Inventories

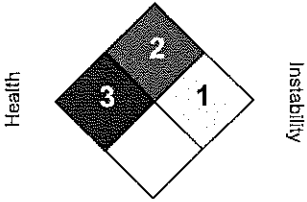
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/23/2015

NFPA:	HMIS III:						
<p style="text-align: center;">Flammability</p>  <p style="text-align: center;">Special hazard.</p>	<table border="1"> <tr> <td>HEALTH</td> <td>3*</td> </tr> <tr> <td>FLAMMABILITY</td> <td>2</td> </tr> <tr> <td>PHYSICAL HAZARD</td> <td>1</td> </tr> </table> <p>0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic</p>	HEALTH	3*	FLAMMABILITY	2	PHYSICAL HAZARD	1
HEALTH	3*						
FLAMMABILITY	2						
PHYSICAL HAZARD	1						

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class II

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

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 accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

SAFETY DATA SHEET

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List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

PPE : Personal Protective Equipment

STEL : Short-term exposure limit

STOT : Specific Target Organ Toxicity

TLV : Threshold Limit Value

TWA : Time-weighted average

vPvB : Very Persistent and Very Bioaccumulative

WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act

DOT : Department of Transportation

FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act

HMIRC : Hazardous Materials Information Review Commission

HMS : Hazardous Materials Identification System

NFPA : National Fire Protection Association

NIOSH : National Institute for Occupational Safety and Health

OSHA : Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System