1. SUBSTANCE / PREPARATION AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER

: AQUAFILM V6701

SUPPLIER

Magnus USA Ltd

7405 S. Bitterrot Place, Suite 101, Sioux Falls, SD 57108

T 1 800 363 9929

EMERGENCY NUMBER

American Association of Poison Control Centers: 1 800 222 1222

CANUTEC: 1 888 226 8832 (24 hours)

USE OF THE PREPARATION

All-organic corrosion inhibitor for steam boilers used in processing and heating food.

2. HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

REPRODUCTIVE TOXICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE - Category 2

CORROSIVE TO METALS - Category 1

LABEL ELEMENTS:

This product has been classified and labeled according to HAZCOM 2012.

Hazard Pictograms::



Signal Word

: Danger

Hazard Statements

: H290 - May be corrosive to metals.

: H314 - Causes severe skin burns and eye damage.

: H361 - Suspected of damaging fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated

exposure.

Precautionary statements

Prevention

: P201 - Obtain special instructions before use.

: P202 - Do not handle until all safety precautions have been read and

understood.

: P234 - Keep only in original container.

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

: P264 - Wash face and hands thoroughly after handling.

: P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

Intervention

: P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.



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- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- : P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- : P308+P313 IF exposed or concerned: Get medical advice/attention.
- : P310 Immediately call a POISON CENTER or doctor/physician.
- : P314 Get medical advice/attention if you feel unwell.
- : P321 Specific treatment (see first aid instructions on this label).
- P331 Do NOT induce vomiting.
- : P363 Wash contaminated clothing before reuse.
- : P390 Absorb spillage to prevent material damage.

Storage

Disposal

- P405 Store locked up.
- P406 Store in corrosive resistant/metal container with a resistant inner liner.
- : P501 Dispose of contents/container in accordance with applicable laws and

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS	CONCENTRATION (Weight)
N,N-Diethylethanolamine	100-37-8	7-13
Cyclohexylamine	108-91-8	5-10
Oleylamine	112-90-3	1-5

regulations.

There are no other ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. FIRST AID MEASURES

FIRST-AID MEASURES AFTER EYE CONTACT

Check for and remove contact lenses after the first 5 minutes of flushing. Rinse with plenty of water during at least 15 minutes holding open eyelids. Quickly consult a physician or an ophthalmologist.

FIRST-AID MEASURES AFTER SKIN CONTACT

Remove contaminated clothing and shoes while washing affected skin with soap and water during at least 15 minutes. Consult a physician if a discomfort or an irritation persists. Wash contaminated clothing before re-use.



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FIRST-AID MEASURES AFTER INHALATION

Remove to fresh air. Keep warm (blanket). If breathing is difficult, trained personal should administer oxygen. If a discomfort persists, consult a physician.

FIRST-AID MEASURES AFTER INGESTION

Contact a physician or a poison-control center. DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Rinse mouth with water then drink plenty of water. If vomiting occurs, keep head below hips.

OTHER FIRST AID

Consult a physician

The symptoms/effects acute and delayed are listed under section 11.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media Inappropriate Extinguishing Media Carbon dioxide, dry chemical, foam, water spray.

Do not use a strong spray of water.

FIRE FIGHTING

Unusual Fire Hazards

None known.

Hazardous combustion products

Nitrogen oxides. Carbon oxides.

Advice for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and

protective fire fighting clothing. Use water spray to cool fire exposed containers.

6. ACCIDENTAL RELEASE MEASURES

SAFETY PRECAUTIONS:

Evacuate spill area ventilate properly.

Use appropriate personal protective equipment.

Practice good industrial hygiene when handling this product.

Avoid all contact with skin, eyes and clothing.

Avoid breathing overspray and vapors/mists/fogs.

Consult safety measures listed under sections 7 and 8.

ENVIRONMENTAL SAFETY PRECAUTIONS AND CLEANING METHODS:

Ensure appropriate ventilation.

Contain spill or leak if it can be done without risk.

Do not allow to enter soil, drains, streams and groundwater.

In case of a large spill, pump product for recovery and disposal.

Absorb spill with inert material (e.g. vermiculite, sand or earth).

Use non-sparking and grounded tools/equipments.

Pick up and put in suitable and identified container for disposal.

Wash area with water.

7. HANDLING AND STORAGE

HANDLING:



Open and handle the container with care.

Practice good industrial hygiene when handling this product.

Use appropriate personal protective equipment.

Use in well ventilated area or under adequate ventilation.

Avoid all contact with eyes, skin and clothing. Avoid breathing vapors and mists.

Use non-sparking and grounded tools/equipments. Avoid static charges accumulation.

STORAGE:

Keep the container tightly closed in a dry, cool and well ventilated area.

Keep away from incompatible materials.

Keep the product in the original container

Ground container.

Avoid freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS:

N,N-Diethylethanolamine (100-37-8)

LIMIT/STANDARD	ANDARD VALUE	
TWA	10 ppm, the substance can be absorbed through the skin	NIOSH
STEL	Not available.	SUPPLIER
	Cyclohexylamine (108-91-8)	
LIMIT/STANDARD	VALUE	SOURCE
TWA	10 ppm, 41 mg/m³	NIOSH
STEL	Not available.	SUPPLIER
	Oleylamine (112-90-3)	
LIMIT/STANDARD	VALUE	SOURCE
TWA	Not available.	SUPPLIER
STEL	Not available	SUPPLIER

APPROPRIATE ENGINEERING CONTROL:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions.

Control measures to consider:

General or local exhaust extraction able to maintain emissions below exposure limits. If

ventilation is insufficient, wear an approved breathing apparatus.

PERSONAL PROTECTION:

Hand protection

Butyl rubber. Nitrile.

Eye protection

Safety glasses and face-shield if splashing may occur.

Respiratory protective equipment

Determine required respiratory equipments after evaluating the specific conditions and hazards in the workplace. If exposure limits are exceeded, use an

approved respirator.

Other protections

Antistatic boots. Chemical resistant apron. Long sleeved clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE : Clear colorless liquid

ODOUR : Amine

ODOUR THRESHOLD : Not available.

pH : 12.0-13.0

MELTING POINT/FREEZING POINT (°C) : 0

INITIAL BOILING POINT/BOILING RANGE (°C) : 100

FLASH POINT (°C) : Not applicable.

EVAPORATION RATE : Not available.

CONDITIONS OF FLAMMABILITY : None known.

LOWER FLAMMABLE/EXPLOSIVE LIMIT (%) : Not applicable.

UPPER FLAMMABLE/EXPLOSIVE LIMIT (%) : Not applicable.

VAPOUR PRESSURE (KPA) : Not available.

VAPOUR DENSITY : Not available.

RELATIVE DENSITY : 0.96-0.98

SOLUBILITY : Complete

PARTITION COEFFICIENT - N-OCTANOL/WATER : Not available.

AUTO-IGNITION TEMPERATURE (°C) : Not available.

DECOMPOSITION TEMPERATURE : Not available.

VISCOSITY (MM2/S (CST) AT 40°C) : Not applicable.

VOC CONTENT : Not available.

10. STABILITY AND REACTIVITY

REACTIVITY : Not available.

CHEMICAL STABILITY : Stable under the recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS : No hazardous reactions when the product is stored and handled

according to instructions.

CONDITIONS TO AVOID : Avoid temperatures higher than flash point, ignition sources,

static accumulation, heat and contact with incompatible

materials.

INCOMPATIBLE MATERIALS : Acids. Reducing agents. Aluminum. Acid anhydrides. Halogenated

compounds. Sodium Hypochlorite. Isocyanates. Oxidizing agents.

Peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS : Nitrogen oxides. Carbon oxides.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:



N,N-Diethylethanolamine	e (100-37-8)
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LD50 Oral (Rat) mg/kg	: 1320
LD50 Dermal (Rabbit) mg/kg	; 885
LC50 Inhalation (Rat)	: 4.6 mg/L, 4h
	Cyclohexylamine (108-91-8)
LD50 Oral (Rat) mg/kg	; 300
LD50 Dermal (Rabbit) mg/kg	; 277
LC50 Inhalation (Rat)	; 7500 mg/m³, 4h
	Oleylamine (112-90-3)
LD50 Oral (Rat) mg/kg	: Not available.
LD50 Dermal (Rabbit) mg/kg	: Not available.

ROUTE OF ENTRY (EXPOSURE):

Skin absorption. Eye contact. Ingestion. Inhalation

EFFECTS OF ACUTE EXPOSURE

Eye contact

Burn. Irritation. Possibility of permanent damage. Possibility of pain. Tear production. Redness.

Skin contact

Dryness. Burn. Irritation. Redness.

Inhalation

LC50 Inhalation (Rat)

Irritation of the respiratory tract if product is sprayed or in mist. Headache.

Not available.

Ingestion

Diarrhea. Irritation. Gastric discomfort. Nausea. Vomiting.

EFFECTS OF CHRONIC EXPOSURE

Carcinogenicity

Does not contain ingredient(s) at levels greater than or equal to 0,1% identified as

carcinogenic according to NTP, IARC or OSHA.

Reproductive toxicity

Contains a confirmed reprotoxic ingredient.

Teratogenicity

Not available.

Mutagenicity : Not available.
Sensitization : Not available.

Synergistic products : Not available.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

N,N-Diethylethanolamine (100-37-8)

LC50 (Fish) : 147 mg/L, 96h (Species: Leuciscus idus melanotus)

EC50 (Other aquatic organisms) : 62,3 mg/L, 72h (Species: Scenedesmus subspicatus)

EC50 (Daphnia) : 83,6 mg/L, 48h (Species: Daphnia magna)

Cyclohexylamine (108-91-8)

LC50 (Fish) : 44 mg/L, 96h (Species: Oncorhynchus mykiss)

EC50 (Other aquatic organisms) ; 20 mg/L, 96h (Species: Selenastrum capricornutum)



EC50 (Daphnia)	:	49 mg/L, 24h (Species: Daphnia magna)
Oleylamine (112-90-3)		
LC50 (Fish)	:	Not available.
EC50 (Other aquatic organisms)	:	Not available.
EC50 (Daphnia)	:	Not available.

PERSISTENCE AND DEGRADABILITY

N,N-Diethylethanolamine (100-37-8)

Readily biodegradable.

Cyclohexylamine (108-91-8)

Readily biodegradable.

Oleylamine (112-90-3)

Biodegradable 301B

BIOACCUMULATIVE POTENTIAL

N,N-Diethylethanolamine (100-37-8)

This material is not expected to bioaccumulate.

Cyclohexylamine (108-91-8)

This material is not expected to bioaccumulate.

Oleylamine (112-90-3)

Not available.

MOBILITY IN SOIL

N,N-Diethylethanolamine (100-37-8)

Adsorption to solid soil phase is not expected.

Cyclohexylamine (108-91-8)

This material has a high potential to sorb on soil.

Oleylamine (112-90-3)

Not available.

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable regulations Do not allow to enter ground water, sewage or drains

14. TRANSPORT INFORMATION

IN ACCORDANCE WITH DOT



Regulated

UN NUMBER : UN2735

HAZARD CLASS&DIVISION : 8
PACKING GROUP : II

DESCRIPTION / SHIPPING NAME : AMINES, LIQUID, CORROSIVE, N.O.S.

(N,N-Diethylethanolamine)

ENVIRONMENTAL HAZARDS : Not a marine pollutant

TRANSPORT IN BULK (according to Annex II of MARPOL 73/78 and IBC Code) : Not available.

15. REGULATORY INFORMATION

NATIONAL REGULATIONS:

HAZCOM 2012: This product has been classified in accordance with Regulation 2012 OSHA Hazard Communication Standard (HCS); 29 CFR Part 1910.1200

TSCA: All ingredients are either listed on the United States TSCA Inventory or in compliance with a TSCA Inventory exemption.

CA prop. 65: For more information about California proposition 65 status, please contact us at info@magnus.ca

16. OTHER INFORMATION

The opinions expressed herein are those of qualified experts within Magnus USA Ltd. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of the product are not within the control of Magnus USA Ltd, it is the user's obligation to determine the conditions of safe use of the product.

ACRONYMS/ABBREVIATION

AVAQMD : Antelope Valley Air Quality Management District

CAS : Identification number assigned by the Chemical Abstracts Service

CA Prop. 65 : California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act)

DOT : Department Of Transportation

EC50 : Median effective concentration

GHS : Globally Harmonized System

IARC International Agency for Research on Cancer (IARC) Monographs

IATA:International Air Transport AssociationIBC Code:International Bulk Chemical CodeIMDG:International Maritime Dangerous GoodsLC50:Lethal concentration 50, in air or water

LD50 : Lethal concentration 50, depending on the route of exposure

MARPOL : International Convention for the Prevention of Pollution from Ships

NIOSH : National Institute for Occupational Safety & Health

NTP . National Toxicology Program (NTP) Report on Carcinogens

OSHA Coccupational Safety and Health Administration
STEL Short-Term Exposure Limit (15 minutes)

TSCA : Toxic Substances Control Act
TWA : Time-Weighted Average (8 hours)
VOC : Volatile Organic Compound



OTHER TOXICOLOGICAL INFORMATIONS

PREPARATION : Magnus USA Ltd, Technical Department

 DATE OF PREPARATION
 : 2021/08/11

 DATE OF REVISION
 : 2021/08/11

 TEL
 : 1 800 363 9929

CODE : 238721

END OF THE SDS

