

Revision Date: 06/06/2019

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ORTEGOL AST 8

Chemical name:

Quaternary Ammonium Compound

Other means of identification

Recommended restrictions

Recommended use: Industrial Use Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

> 299 Jefferson Road Parsippany, NJ 07054

USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency +1 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: No labeling is required under Regulation 29 CFR 1910.1200 (US GHS).

Precautionary

Statements

Not a hazardous substance or mixture according to 29 CFR 1910.1200.

Hazard(s) not otherwise classified (HNOC):

None.



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3. Composition/information on ingredients

Chemical name:

Quaternary Ammonium Compound

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
1-Methylimidazole	616-47-7	>=0.5 - <=1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Remove soiled or soaked clothing immediately

Inhalation: No adverse effects anticipated by this route of entry incidental to

proper industrial handling.

Skin Contact: Immediately wash exposed area with soap and water for at least 15

minutes, then flush with water for at least 5 minutes. If reddening persists, or if open sores or blisters develop, see a physician. Remove contaminated clothing and launder before re-use.

Eye contact: Immediately flush with large amounts of water for at least 15 minutes,

lifting upper and lower lids occasionally. Get medical attention immediately. If physician is not immediately available, continue

flushing with water. Do not use chemical antidote.

Ingestion: Immediately drink two large glasses of water. Call a physician.

Personal Protection for First-

aid Responders:

As in any fire, wear self-contained breathing apparatus pressure-

demand, (MSHA/NIOSH approved or equivalent) and full protective

gear.

Most important symptoms/effects, acute and delayed

Symptoms: No information is on file to date regarding acute and/or delayed post-

exposure symptoms and effects.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: Water or foam may cause frothing which can be violent, especially if

sprayed into containers of hot, burning liquid.

Suitable (and unsuitable) extinguishing media



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Suitable extinguishing

media:

Dry chemical, water fog, regular foam

Unsuitable extinguishing

media:

Full water jet

Specific hazards arising from

the chemical:

Formation of oxides of carbon, nitrogen oxides and sulfur compounds.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Take action to prevent static discharges. Keep away from sources of

ignition

Special protective equipment

for fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand,

(MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Use personal protective equipment.

Methods and material for containment and cleaning

up:

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Do not discharge into the

subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local

and general ventilation):

Good general ventilation should be sufficient for most conditions. Local

exhaust ventilation may be necessary for some operations.

Safe handling advice: Avoid contact with skin and eyes. Do not inhale

gases/vapours/aerosols.Ensure adequate ventilation.

Contact avoidance measures: No data available.

Hygiene measures: No smoking, eating or drinking allowed when using this product. Wash

hands before breaks and at end of work shift. Avoid Skin and Eye Contact. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as

if they were full.

Storage

Safe storage conditions: Exercise caution when handling contents of the container. Wash with soap

and water before eating, drinking, smoking, or using toilet facilities.

Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries. Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not

store near heat or open flame.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters



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Occupational Exposure Limits

None of the components have assigned exposure limits. Hazardous components without workplace control parameters

Appropriate Engineering

Controls

Good general ventilation should be sufficient for most conditions. Local

exhaust ventilation may be necessary for some operations.

Individual protection measures, such as personal protective equipment

Eye/face protection: Chemical splash proof goggles.

Skin Protection

Hand Protection: Additional Information: Wear protective gloves such as: Neoprene or Buna-

N.

Skin and Body Protection:

light protective clothing

Respiratory Protection: None required with normal use.

Hygiene measures: No smoking, eating or drinking allowed when using this product. Wash

hands before breaks and at end of work shift. Avoid Skin and Eye Contact. Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as

if they were full.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Yellow

Odor: Characteristic
Odor Threshold: not measured

pH: 7 (10 % solution) Isopropanol/water

Freezing point: (OECD 102) Not applicable

Boiling Point: (OECD 103) Not applicable

Flash Point: > 212 °F (Penskey-Marten CC)

Evaporation Rate:No data available.
Flammability (solid, gas):
no data available

Explosive limit - upper (%): not measured

Explosive limit - lower (%): No data available.

Vapor pressure: 7.1 Pa (20 °C) (OECD 104)

Vapor density (air=1): No data available.

Density: 1.24 g/cm3 (20 °C) (OECD 109)

Relative density: No data available.

Solubility(ies)

Solubility in Water: > 1,000 g/l (20 °C) Soluble

Solubility (other): not measured

Partition coefficient (n-octanol/water): (OECD 107) Not applicable

Self Ignition Temperature:not measuredDecomposition Temperature:not measuredKinematic viscosity:No data available.

Dynamic viscosity: 50 mPa.s (49 °C) | approx. 1,000 mPa.s (25 °C,



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Brookfield)

Other information

Explosive properties:Not explosive

Oxidizing properties:
Not oxidising

Minimum ignition temperature: 425 °C (DIN 51794)

Metal Corrosion: not measured

10. Stability and reactivity

Reactivity: see section "Possibility of hazardous reactions"

Chemical Stability: The product is stable under normal conditions.

Possibility of hazardous

reactions:

No hazardous reactions with proper storage and handling.

Conditions to avoid: Avoid contact with strong oxidants.

Incompatible Materials: Unknown

Hazardous Decomposition

Products:

None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation: If handled correctly, not a relevant route of exposure. Information on effects

are given below.

Skin Contact: Relevant route of exposure. Information on effects are given below.

Eye contact: Relevant route of exposure. Information on effects are given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects

are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): > 2,000 mg/kg

Dermal

Product: LD50 (Rat): > 2,000 mg/kg

Inhalation

Product: no data available



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Repeated dose toxicity

Product: NOAEL (Rat, Oral): 1,000 mg/kg

Skin Corrosion/Irritation

Product: non-irritant

OECD 404 (Rabbit): non-irritant

Serious Eye Damage/Eye Irritation

Product: non-irritant

Rabbit: non-irritant

Respiratory or Skin Sensitization

Product: , OECD 429 (LLNA-Test)non-sensitizing

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: gene mutation (HGPRT-Test) (OECD TG 476): negative

Ames test (OECD 471): negative

Chromosome aberration test in vitro (OECD Test Guideline 473): negative

In vivo

Product: (OECD TG 474) (Rat)negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: no data available

Specific Target Organ Toxicity - Repeated Exposure

Product: no data available

Aspiration Hazard

Product: Not classified

Other effects: Proper use provided, no adverse health effects have been observed or

have been come to our knowledge. The substance has no mutagenic

activity (Ames Test)

12. Ecological information



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Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50 (carp, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: EC 50 (Daphnia magna, 48 h): > 100 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: EC 50 (Selenastrum capricornutum, 72 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: (OECD 107) Not applicable

Mobility in soil: No data available.

Components:

1-Methylimidazole No data available.

Other adverse effects: Do not allow to enter soil, waterways or waste water canal. The product is

classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters

(WwSV).

13. Disposal considerations

Disposal methods: In accordance with local authority regulations, take to special waste

incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver

must be informed about possible hazards.

14. Transport information

Domestic regulation



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49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)



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None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory: On or in compliance with the

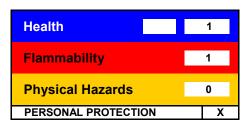
inventory

Canada NDSL Inventory: On or in compliance with the

inventory

16.Other information, including date of preparation or last revision

HMIS Hazard ID



Ask supervisor or safety specialist for handling instructions

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

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Version #: 1.1

Further Information: No data available.

Revision Information: Changes since the last version are highlighted in the margin. This version

replaces all previous versions.



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