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Version: 6.6

Effective date: 01/06/2021

Previous Date: 01/12/2020

# SAFETY DATA SHEET

## STEAMATE NA0880 (BoilGard CT 160)

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

#### 1.1. Product identifier

Trade name or designation of the mixture STEAMATE NA0880 (BoilGard CT 160)

Version number 6.6

Revision date 01/06/2021

Supersedes date 01/12/2020

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

Identified uses Blend of neutralising amines

Uses advised against None known.

#### 1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,  
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,  
Tashkent Region,  
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Acute toxicity, inhalation	Category 4	H332 - Harmful if inhaled.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.



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Specific target organ toxicity - single exposure

Category 3 respiratory tract irritation

H335 - May cause respiratory irritation.

### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard

Category 3

H412 - Harmful to aquatic life with long lasting effects.

### Hazard summary

Causes severe skin burns and eye damage. Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. May cause irritation to the respiratory system. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects. Dangerous for the environment if discharged into watercourses. Occupational exposure to the substance or mixture may cause adverse health effects.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 3-Aminopropyldimethylamine (DMAPA), Ethanolamine

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

- 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.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a POISON CENTRE/doctor.

#### Storage

Not available.

#### Disposal

Not available.

### Supplemental label information

None.

### 2.3. Other hazards

Not a PBT or vPvB substance or mixture.

## SECTION 3: Composition/information on ingredients

### Mixtures

#### Chemical description

Neutralising amine

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Ethanolamine	30 - < 40	141-43-5 205-483-3	01-2119486455-28	603-030-00-8	#

#### Classification:

Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Acute Tox. 4;H332, STOT SE 3;H335, Aquatic Chronic 3;H412



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Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
3-Aminopropyldimethylamine (DMAPA)	10 - < 20	109-55-7 203-680-9	01-2119486842-27	612-061-00-6	
<b>Classification:</b>	Flam. Liq. 3;H226, Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Skin Sens. 1B;H317, STOT SE 3;H335				
Diethanolamine	< 0,3	111-42-2 203-868-0	01-2119488930-28	603-071-00-1	
<b>Classification:</b>	Acute Tox. 4;H302, Skin Irrit. 2;H315, Eye Dam. 1;H318, Repr. 2;H361d, Repr. 2;H361f, STOT RE 2;H373				

### List of abbreviations and symbols that may be used above

- #: This substance has been assigned Union workplace exposure limit(s).
- M: M-factor
- PBT: persistent, bioaccumulative and toxic substance.
- vPvB: very persistent and very bioaccumulative substance.
- All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16.

### SECTION 4: First aid measures

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison centre or doctor/physician if you feel unwell.
- Skin contact** Remove contaminated clothing immediately and wash skin with soap and water. Call a physician or poison control centre immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
- Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.
- Ingestion** Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**4.2. Most important symptoms and effects, both acute and delayed** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

**4.3. Indication of any immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

### SECTION 5: Firefighting measures

**General fire hazards** No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

- Suitable extinguishing media** Alcohol resistant foam. Powder. Carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

- Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- Special fire fighting procedures** Move containers from fire area if you can do so without risk. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.



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**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Use water spray to reduce vapours or divert vapour cloud drift. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

#### 6.4. Reference to other sections

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Only for industrial users

**Shelf life** 720 days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Ethanolamine (CAS 141-43-5)	STEL	7,6 mg/m3
	TWA	3 ppm
		2,5 mg/m3
		1 ppm

##### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Ethanolamine (CAS 141-43-5)	STEL	7,6 mg/m3
	TWA	3 ppm
		2,5 mg/m3
		1 ppm

**Biological limit values** No biological exposure limits noted for the ingredient(s).



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**Recommended monitoring procedures** Follow standard monitoring procedures.

### Derived no effect levels (DNELs)

#### Workers

Components	Value	Assessment factor	Notes
3-Aminopropylidimethylamine (DMAPA) (CAS 109-55-7)			
Long-term, Local, Inhalation	1,2 mg/m <sup>3</sup>	18	
Long-term, Systemic, Inhalation	1,2 mg/m <sup>3</sup>	18	
Diethanolamine (CAS 111-42-2)			
Long-term, Local, Inhalation	0,5 mg/m <sup>3</sup>	1	
Long-term, Systemic, Dermal	0,13 mg/kg	60	
Long-term, Systemic, Inhalation	0,75 mg/m <sup>3</sup>		
Ethanolamine (CAS 141-43-5)			
Long-term, Local, Inhalation	3,3 mg/m <sup>3</sup>	3	
Long-term, Systemic, Dermal	1 mg/kg	120	

### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
3-Aminopropylidimethylamine (DMAPA) (CAS 109-55-7)			
Freshwater	72,8 µg/l		
Intermittent releases	340 µg/l		
Marine water	7,28 µg/l		
Sediment (freshwater)	735 µg/kg		
Sediment (marine water)	73,5 µg/kg		
Soil	104 µg/kg		
STP	69,5 mg/l		
Diethanolamine (CAS 111-42-2)			
Freshwater	0,02 mg/l	50	
Intermittent releases	0,095 mg/l	100	
Marine water	0,002 mg/l	500	
Secondary poisoning	1,04 mg/kg	90	Oral
Sediment (freshwater)	0,092 mg/kg		
Sediment (marine water)	0,009 mg/kg		
Soil	1,63 mg/kg		
STP	100 mg/l	10	
Ethanolamine (CAS 141-43-5)			
Freshwater	0,085 mg/l	10	
Intermittent releases	0,025 mg/l	100	
Marine water	0,0085 mg/l	100	
Sediment (freshwater)	0,425 mg/kg		
Sediment (marine water)	0,0425 mg/kg		
Soil	0,035 mg/kg		
STP	100 mg/l	10	

### Exposure guidelines

#### UK EH40 WEL: Skin designation

Ethanolamine (CAS 141-43-5) Can be absorbed through the skin.

### 8.2. Exposure controls

#### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

##### General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.



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<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles) and a face shield. CEN : EN 166
<b>Skin protection</b>	
- <b>Hand protection</b>	Gauntlet type neoprene gloves (Protection against unintentional short-term contact) Gauntlet type nitrile gloves (Protection against unintentional short-term contact) Gauntlet type rubber gloves (Protection against unintentional short-term contact) Coating thickness: 0.5 mm Penetration time: > 480 min CEN : EN 374-1/2/3/4; EN 420
- <b>Other</b>	Wear appropriate chemical resistant clothing. CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605
<b>Respiratory protection</b>	In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 CEN : EN 140; EN 14387
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
<b>Environmental exposure controls</b>	Inform appropriate managerial or supervisory personnel of all environmental releases. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Colour	Colourless to yellow
Physical state	Liquid
Odour	Slight
Odour threshold	Not available.
pH (concentrated product)	12,7
pH in aqueous solution	11,7 (5% SOL.)
Melting point/freezing point	< -34 °C
Initial boiling point and boiling range	104 °C
Flash point	> 100 °C P-M(CC)
Evaporation rate	< 1 (Ether = 1)
Flammability (solid, gas)	Not applicable.

#### Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	18 mm Hg / 2,4 kPa
Vapour pressure temp.	21 °C
Vapour density	> 1 (Air = 1)
Relative density	1
Relative density temperature	21 °C
<b>Solubility</b>	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.



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<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	14 cps
<b>Viscosity temperature</b>	21 °C
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Pour point</b>	< -34 °C
<b>Shelf life</b>	720 days
<b>VOC</b>	60 % (Estimated)

### SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>10.4. Conditions to avoid</b>	None under normal conditions.
<b>10.5. Incompatible materials</b>	Strong acids. Strong oxidising agents. Peroxides. Phenols.
<b>10.6. Hazardous decomposition products</b>	Nitrogen oxides (NOx). Carbon oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Product</b>	<b>Test Results</b>
STEAMATE NA0880 (BoilGard CT 160) (Mixture)	Acute Dermal LD50 Rabbit: 1300 mg/kg (Calculated according to GHS additivity formula) Acute Inhalation LC50 Rat: 3,22 mg/l 4 hour (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: 1400 mg/kg (Calculated according to GHS additivity formula)
<b>Components</b>	<b>Test Results</b>
3-Aminopropylidimethylamine (DMAPA) (109-55-7)	Acute Inhalation LC50 Rat: > 4,3 mg/l 4 hour Acute Oral LD50 Rat: 410 mg/kg
Diethanolamine (111-42-2)	Acute Dermal LD50 Rabbit: 4000 mg/kg Acute Oral LD50 Rat: 1600 mg/kg
Ethanolamine (141-43-5)	Acute Dermal LD50 Rabbit: 1025 mg/kg Acute Inhalation LC50 Rat: > 1,5 mg/l 4 hour Acute Oral LD50 Rat: 1720 mg/kg
<b>Acute toxicity</b>	Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed.
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.





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**General information** Occupational exposure to the substance or mixture may cause adverse effects.

**Information on likely routes of exposure**

- Ingestion** Causes digestive tract burns. Harmful if swallowed.
- Inhalation** May cause irritation to the respiratory system.
- Skin contact** Causes severe skin burns. May cause an allergic skin reaction.
- Eye contact** Causes serious eye damage.

**Symptoms** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Mixture versus substance information** No information available.

**Other information** Not available.

### SECTION 12: Ecological information

**12.1. Toxicity** Harmful to aquatic life with long lasting effects.

Product	Species	Test Results	
STEAMATE NA0880 (BoilGard CT 160) (CAS Mixture)			
<b>Aquatic</b>			
Crustacea	LC50	Daphnia magna	160 mg/l, Acute toxicity, 48 hour, (Estimated)
	NOEL	Daphnia magna	49 mg/l, Acute toxicity, 48 hour, (Estimated)
Fish	LC50	Fathead minnow	440 mg/l, Acute toxicity, 96 hour, (Estimated)
	NOEL	Fathead minnow	260 mg/l, Acute toxicity, 96 hour, (Estimated)

**12.2. Persistence and degradability**

- COD (mgO2/g) 768 (calculated data)
- BOD 5 (mgO2/g) 252 (calculated data)
- BOD 28 (mgO2/g) 252 (calculated data)
- Closed Bottle Test (% Degradation in 28 days) 30 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days) 65 (calculated data)
- TOC (mg C/g) 266 (calculated data)

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol/water (log Kow)**

- Diethanolamine -1,43
- Ethanolamine -1,31

**Bioconcentration factor (BCF)**

- Diethanolamine 3
- Ethanolamine 3

**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.





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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.  According to Hazardous Waste Regulations. EWC ( European Waste Code ) recommendation : 15 01 10 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified. 15 01 Packaging (including separately collected municipal packaging waste). 15 01 10 Packaging containing residues of or contaminated by dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.  According to Hazardous Waste Regulations. EWC ( European Waste Code ) recommendation : 16 03 05 16 Wastes not otherwise specified in the list. 16 03 Off-specification batches and unused products. 16 03 05 Organic wastes containing dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

### SECTION 14: Transport information

#### ADR

<b>14.1. UN number</b>	UN2735
<b>14.2. UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, 3-Aminopropyldimethylamine (DMAPA, Mixture)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>Tunnel restriction code</b>	(E)
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

#### RID

<b>14.1. UN number</b>	UN2735
<b>14.2. UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, 3-Aminopropyldimethylamine (DMAPA, Mixture)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	8
<b>Subsidiary risk</b>	-
<b>14.4. Packing group</b>	II
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

#### ADN

<b>14.1. UN number</b>	UN2735
<b>14.2. UN proper shipping name</b>	AMINES, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, 3-Aminopropyldimethylamine (DMAPA, Mixture)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	8



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**Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### IATA

**14.1. UN number** UN2735  
**14.2. UN proper shipping name** AMINES, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, 3-Aminopropyldimethylamine (DMAPA, Mixture)  
**14.3. Transport hazard class(es)**  
**Class** 8  
**Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards** No.  
**ERG Code** Not available.  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

### IMDG

**14.1. UN number** UN2735  
**14.2. UN proper shipping name** AMINES, LIQUID, CORROSIVE, N.O.S. (Ethanolamine, 3-Aminopropyldimethylamine (DMAPA, Mixture)  
**14.3. Transport hazard class(es)**  
**Class** 8  
**Subsidiary risk** -  
**14.4. Packing group** II  
**14.5. Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-A, S-B  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.  
**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** Not established.

ADN; ADR; IATA; IMDG; RID



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.



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**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

3-Aminopropyl dimethylamine (DMAPA) (CAS 109-55-7)

### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

### National regulations

Not available.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

### List of abbreviations

COD: Chemical Oxygen Demand  
EC-No: European Commission Number  
IATA: International Air Transport Association  
CAS: Chemical Abstract Service.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
CEN: European Committee for Standardization (Comité Européen de Normalisation).  
TWA: Time Weighted Average.  
STEL: Short-term Exposure Limit.  
LD50: Lethal Dose 50%.  
LC50: Lethal Concentration 50%.  
EC50: Effective Concentration 50%.  
NOEL: No observed effect level.  
BOD: Biochemical oxygen demand.  
TOC: Total Organic Carbon.  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).



# P&WC

## SAFETY DATA SHEET

### STEAMATE NA0880 (BoilGard CT 160)

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<b>References</b>	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures). IMDG Code: International Maritime Dangerous Goods Code. RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer). Safety data sheets of raw materials.
<b>Information on evaluation method leading to the classification of mixture</b>	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
<b>Full text of any H-statements not written out in full under Sections 2 to 15</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure by ingestion. H412 Harmful to aquatic life with long lasting effects.
<b>Revision information</b>	This document has undergone significant changes and should be reviewed in its entirety.
<b>Training information</b>	Follow training instructions when handling this material.
<b>Disclaimer</b>	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.
<b>Based on EC Directive / Regulations</b>	(EC) No 1907/2006 (REACH) (EC) No 1272/2008 (EU) 2015/830 (EU) No 1357/2014
<b>Further information</b>	Correction in Section: 2,3,4,5,6,7,8,10,11,12,13