According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

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

1.1 Product identifier

Trade name : NOVACRON® OCEAN S-R

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

Use of the : Textile dyes, finishing and impregnating products; including

Substance/Mixture bleaches and other processing aids

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Textile Effects Address : Klybeckstrasse 200

CH-4057 Basel

Switzerland

Telephone : +41 61 299 11 11

Company : Huntsman Textile Effects c/o Huntsman Textile Effects

(Germany) GmbH

Address : Rehlinger Straße 1

D-86462 Langweid

Germany

Telephone : +49 8230 410 Telefax : +49 8230 41 370

E-mail address of person

responsible for the SDS

: pehs te@huntsman.com

# 1.4 Emergency telephone number

Emergency telephone number : Europe: +32 35751234

Americas: +1 703 527 3887 Africa: +32 35751234

Asia & Pacific: +65 6336 6011 China: +86 20 39377888 +86 532 83889090

India: + 91 22 42 87 5333 USA & Canada: 800 424 9300

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

#### Classification T.R. SEA No 28848

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

## 2.2 Label elements

Labelling T.R. SEA No 28848

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Hazard pictograms





Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statements : **Prevention**:

P261 Avoid breathing dust/ fume/ gas/ mist/

vapours/ sprav.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

P305 + P351 + P338 + P310IF 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.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P363 Wash contaminated clothing before reuse.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

Hazardous components which must be listed on the label:

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid reaction products with 4-[(2-chloroethyl)sulfonyl]

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

No information available.

# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

# **Hazardous components**

Chemical name	CAS-No. EC-No.	T.R. SAE No 27092	T.R. SEA No 28848	Concentration (% w/w)
3,10-Bis[(2- aminoethyl)amino]- 6,13-dichloro-4,11- triphenodioxazinedisulf onic acid reaction products with 4-[(2- chloroethyl)sulfonyl]	1015447-12-7	Xi; R41 Xi; R43	Eye Dam.1; H318 Skin Sens.1; H317	13 - 30

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

citric acid 77-92-9 Xi; R36 Eye Irrit.2; H319 1 - 3

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of 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 : If unconscious place in recovery position and seek

medical advice.

If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

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.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

# 4.2 Most important symptoms and effects, both acute and delayed

None known.

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : No data is available on the product itself.

Unsuitable extinguishing

media

: High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No data is available on the product itself.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Specific extinguishing

methods

: No data is available on the product itself.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

# **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

Avoid dust formation. Avoid breathing dust.

6.2 Environmental precautions

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.

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

# 6.4 Reference to other sections

None

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Advice on protection against

fire and explosion

: Avoid dust formation. Provide appropriate exhaust ventilation

at places where dust is formed.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply

with the technological safety standards.

Advice on common storage : No hazardous decomposition products are known.

Other data : Keep in a dry place. No decomposition if stored and applied

as directed.

#### 7.3 Specific end use(s)

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## Personal protective equipment

Eye protection : Tightly fitting safety goggles

Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection

Material : Neoprene gloves

Break through time : < 1 h

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Skin and body protection : Dust impervious protective suit

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Respiratory protection : P3 filter

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : blue

Odour : odourless

pH : 6-8

Concentration: 100 g/l (20 °C)

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: No information available.

Flash point : No data is available on the product itself.

Density : 1,376 g/cm3 (20 °C)

Bulk density

1 g/cm3

Solubility(ies)

Water solubility : 60,4 g/l (20 °C)

Partition coefficient: n-

octanol/water

: log Pow: -4,4 (20 °C)

Decomposition temperature : > 200 °C

Viscosity : No data is available on the product itself.

Oxidizing properties : None.

9.2 Other information

Molecular weight : No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

Stable under normal conditions.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version **Revision Date:** SDS Number: Date of last issue: -

Date of first issue: 28.06.2016 1.0 28.06.2016 400001007002

No decomposition if stored and applied as directed.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : None.

No data available

10.5 Incompatible materials

Materials to avoid : No data available

# 10.6 Hazardous decomposition products

Stable under normal conditions.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute toxicity

: LD50 (Rat): > 2.000 mg/kg Acute oral toxicity - Product

Acute inhalation toxicity : No data available

: No data available Acute dermal toxicity

Acute toxicity (other routes of : No data available

administration)

#### Skin corrosion/irritation

#### **Product:**

Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Extremely corrosive and destructive to tissue.

# Serious eye damage/eye irritation

## **Product:**

Species: Rabbit

Assessment: Stains the eyes Method: OECD Test Guideline 405

Result: Stains the eyes

Remarks: May cause irreversible eye damage.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

#### Respiratory or skin sensitisation

#### **Product:**

Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429 Result: Causes sensitisation.

Remarks: Causes sensitisation.

Assessment: No data available

## Germ cell mutagenicity

## **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid reaction products with 4-[(2-chloroethyl)sulfonyl]:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Metabolic activation: Metabolic activation Method: OECD Test Guideline 473

Result: positive

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid reaction products with 4-[(2-chloroethyl)sulfonyl]:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

: Metabolic activation: Metabolic activation Method: OECD Test Guideline 473

Result: positive

: Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

#### **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Genotoxicity in vivo : Method: OECD Test Guideline 474

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Result: negative

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Genotoxicity in vivo : Method: OECD Test Guideline 474

Result: negative

# Carcinogenicity

No data available

Carcinogenicity -

Assessment

: No data available

## Reproductive toxicity

#### Components:

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 421

Result: No effects on fertility and early embryonic

development were detected.

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Species: Rat, male and female

**Application Route: Oral** 

Method: OECD Test Guideline 421

Result: No effects on fertility and early embryonic

development were detected.

# **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Effects on foetal : Species: Rat, female development Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1.000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Species: Rat, female Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

1.000 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

Date of first issue: 28.06.2016 1.0 28.06.2016 400001007002

Reproductive toxicity -

Assessment

: No data available

# STOT - single exposure

No data available

## STOT - repeated exposure

No data available

# Repeated dose toxicity

#### **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid reaction products with 4-[(2-chloroethyl)sulfonyl]:

Species: Rat

NOAEL: 1000 mg/kg

Application Route: Ingestion

Exposure time: 672 hMethod: Subacute toxicity

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Species: Rat

NOAEL: 1000 mg/kg

**Application Route: Ingestion** 

Exposure time: 672 hMethod: Subacute toxicity

Repeated dose toxicity -

: No data available

Assessment

# **Aspiration toxicity**

No data available

# **Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

## Toxicology, Metabolism, Distribution

No data available

#### **Neurological effects**

No data available

#### **Further information**

**Product:** 

Remarks: No data available

# **SECTION 12: Ecological information**

## 12.1 Toxicity

**Product:** 

Toxicity to fish : LC50 : > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202

Toxicity to algae : ErC50 (Other): > 100 mg/l

Exposure time: 72 h

Test substance: Fresh water Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: NOEC: 116 mg/l Exposure time: 14 d

Species: Fish

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 204

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 1,95 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211

Toxicity to bacteria : EC50 : > 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

## **Components:**

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

GLP: yes

LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

EC50 (Lemna gibba (gibbous duckweed)): > 100 mg/l

Exposure time: 168 h

Method: OECD Test Guideline 221

Toxicity to bacteria : IC50 : > 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Toxicity to fish (Chronic

toxicity)

: NOEC: 116 mg/l

Exposure time: 14 d

Species: Brachydanio rerio (zebrafish)

Test substance: Fresh water Method: OECD Test Guideline 204

GLP: yes

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 1,95 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid reaction products with 4-[(2-chloroethyl)sulfonyl]:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Method: OECD Test Guideline 203

GLP: yes

LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

GLP: yes

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

GLP: yes

EC50 (Lemna gibba (gibbous duckweed)): > 100 mg/l

Exposure time: 168 h

Method: OECD Test Guideline 221

Toxicity to bacteria : IC50 : > 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

GLP: yes

Toxicity to fish (Chronic

toxicity)

: NOEC: 116 mg/l Exposure time: 14 d

Species: Brachydanio rerio (zebrafish)

Test substance: Fresh water Method: OECD Test Guideline 204

GLP: yes

GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 1,95 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211

## 12.2 Persistence and degradability

**Product:** 

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 10 - 20 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Biochemical Oxygen

Demand (BOD)

: 0 mgO2/g

Chemical Oxygen Demand

(COD)

: ca. 900 mgO2/g

Stability in water : Degradation half life (DT50): 313 d

Method: No information available. GLP: No information available.

## **Components:**

3,10-Bis[(2-aminoethyl) a mino] - 6,13-dichloro-4,11-triphenodioxazine disulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302B

Biochemical Oxygen : 0 mgO2/g

Demand (BOD) Incubation time: 5 d

Chemical Oxygen Demand

(COD)

: 960 mgO2/g

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302B

Biochemical Oxygen : 0 mgO2/g

Demand (BOD) Incubation time: 5 d

Chemical Oxygen Demand

(COD)

: 960 mgO2/g

# 12.3 Bioaccumulative potential

# Product:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 0,14 Remarks: Does not bioaccumulate.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

## **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Bioaccumulation : Species: Brachydanio rerio (zebrafish)

Bioconcentration factor (BCF): 0,14

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Bioaccumulation : Species: Brachydanio rerio (zebrafish)

Bioconcentration factor (BCF): 0,14

## 12.4 Mobility in soil

#### **Product:**

Distribution among : Koc: < 18Method: OECD Test Guideline 121

environmental compartments

#### **Components:**

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Distribution among: Koc: 126164Method: OECD Test Guideline 106

environmental compartments

3,10-Bis[(2-aminoethyl)amino]-6,13-dichloro-4,11-triphenodioxazinedisulfonic acid

reaction products with 4-[(2-chloroethyl)sulfonyl]:

Distribution among: Koc: 126164Method: OECD Test Guideline 106

environmental compartments

# 12.5 Results of PBT and vPvB assessment

Not relevant

#### 12.6 Other adverse effects

## **Product:**

Adsorbed organic bound : ca .9 %

halogens (AOX) Test substance: Chlorine

Additional ecological

information

: No data available

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

Product : 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.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

Do not re-use empty containers.

# **SECTION 14: Transport information**

#### **IATA**

Not regulated as dangerous goods

#### **IMDG**

Not regulated as dangerous goods

#### **ADR**

Not regulated as dangerous goods

#### **RID**

Not regulated as dangerous goods

# Transport in bulk according to Annex II of Marpol and the IBC

**Code** Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

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

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

DSL : This product contains one or several components listed in the

Canadian NDSL.

AICS : Not in compliance with the inventory

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

ENCS : Not in compliance with the inventory

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

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

IECSC : Low volume exemption

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016

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

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America)

#### **SECTION 16: Other information**

## **Full text of R-Phrases**

R36 : Irritating to eyes.

R41 : Risk of serious damage to eyes.

R43 : May cause sensitisation by skin contact.

**Full text of H-Statements** 

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

#### Full text of other abbreviations

Eye Dam. : Serious eye damage Skin Sens. : Skin sensitisation

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of Huntsman Corporation or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED HUNTSMAN EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR HUNTSMAN PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures".



# **NOVACRON® OCEAN S-R**

Version Revision Date: SDS Number: Date of last issue: -

1.0 28.06.2016 400001007002 Date of first issue: 28.06.2016