

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

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

#### 1.1 Product identifier

Trade name : NOVACRON® DEEP CHERRY S-D IN

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

Use of the : Textile dye  
Substance/Mixture

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

|  |   |
|--|---|
| Company  | : Huntsman Textile Effects  |
| Address  | : Klybeckstrasse 200<br>CH-4057 Basel<br>Switzerland                      |
| Telephone  | : +41 61 299 11 11  |
| Company  | : Huntsman Textile Effects c/o Huntsman Textile Effects<br>(Germany) GmbH |
| Address  | : Rehlinger Straße 1<br>D-86462 Langweid<br>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.               |
| Chronic aquatic toxicity, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

### 2.2 Label elements

#### Labelling T.R. SEA No 28848

Hazard pictograms :



Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
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.

Hazardous components which must be listed on the label:

RED TZ 5271

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl

### 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.

Cases of respiratory sensitization have been observed with reactive dyes.

Should an individual become sensitized a physician should be consulted and all contact with reactive dyes must cease immediately.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name | CAS-No.<br>EC-No. | T.R. SAE No<br>27092 | T.R. SEA No 28848 | Concentration<br>(% w/w) |
|---------------|-------------------|----------------------|-------------------|--------------------------|
|               |                   |                      |                   |                          |

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

|   |                          |                                      |                                      |          |
|---|--------------------------|--------------------------------------|--------------------------------------|----------|
| RED TZ 5271   | 577954-20-2<br>445-040-3 | Xi; R41<br>Xi; R43                   | Eye Dam.1; H318<br>Skin Sens.1; H317 | 60 - 100 |
| N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl)-N-(2-hydroxyethyl)distillates (petroleum), solvent-dewaxed light paraffinic | 171599-85-2<br>419-500-9 | Xi; R41<br>Xi; R41<br>Xi; R43<br>R43 | Eye Dam.1; H318<br>Skin Sens.1; H317 | 13 - 30  |
|   | 64742-56-9<br>265-159-2  | Carc.Cat.2; R45                      |                                      | 0.1 - 1  |

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.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.                                      |
| If inhaled              | : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.<br>If symptoms persist, call a physician.   |
| In case of skin contact | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.  |
| In case of eye contact  | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>If symptoms persist, call a physician.  |

### 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 : Use extinguishing measures that are appropriate to local

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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.  
Ensure adequate ventilation.

### 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 : Pick up and arrange disposal without creating dust.  
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

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

- |   |  |
|---|--|
| Advice on safe handling                         | : Avoid formation of respirable particles.<br>Do not breathe vapours/dust.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Dispose of rinse water in accordance with local and national regulations.<br>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                                | : Handle in accordance with good industrial hygiene and safety practice. 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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              | : Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems. |
| Hand protection<br>Material | : Neoprene gloves   |
| Break through time          | : < 1 h   |

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Remarks : Polyvinyl alcohol or nitrile- butyl-rubber gloves  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.  
Before removing gloves clean them with soap and water.

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 : In the case of dust or aerosol formation use respirator with an approved filter.  
General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.  
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type (P)

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder

Colour : red

Odour : odourless

pH : 6 - 8  
Concentration: 20 g/l (20 °C)

Melting point : > 400 °C  
Method: Melting / Freezing Temperature

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

Density : 0,5 - 0,8 g/cm3  
Bulk density

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Solubility(ies)  
Water solubility : > 100 g/l (20 °C)  
Method: Water solubility

Decomposition temperature : > 200 °C

Viscosity : No data is available on the product itself.

Oxidizing properties : None.

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : None.

### 10.5 Incompatible materials

### 10.6 Hazardous decomposition products

Stable under normal conditions.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral toxicity : No data available

Acute inhalation toxicity : No data available

#### Components:

RED TZ 5271:

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

toxicity

RED TZ 5271:

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no 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

### Serious eye damage/eye irritation

#### Product:

Species: Rabbit  
Assessment: Stains the eyes  
Method: OECD Test Guideline 405  
Result: Stains the eyes

### Respiratory or skin sensitisation

#### Product:

Exposure routes: Skin  
Species: Mouse  
Method: OECD Test Guideline 429  
Result: Causes sensitisation.

Assessment: No data available

### Germ cell mutagenicity

#### Components:

RED TZ 5271:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive



# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

: Method: OECD Test Guideline 482  
Result: negative

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### RED TZ 5271:

Genotoxicity in vitro

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: positive

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: positive

: Method: OECD Test Guideline 482  
Result: negative

: Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

### Components:

#### RED TZ 5271:

Genotoxicity in vivo

: Method: OECD Test Guideline 474  
Result: negative

#### RED TZ 5271:

Genotoxicity in vivo

: Method: OECD Test Guideline 474  
Result: negative

### **Carcinogenicity**

No data available

Carcinogenicity -  
Assessment

: No data available

### **Reproductive toxicity**

Effects on fertility

: No data available

Effects on foetal  
development

: No data available

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Reproductive toxicity - : No data available  
Assessment

### STOT - single exposure

No data available

### STOT - repeated exposure

No data available

### Repeated dose toxicity

#### Components:

RED TZ 5271:

Species: Rat, male and female

NOEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 28 DaysMethod: Subacute toxicity

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethy:

Species: Rat

NOEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 672 hMethod: Subacute toxicity

RED TZ 5271:

Species: Rat, male and female

NOEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 28 DaysMethod: Subacute toxicity

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethy:

Species: Rat

NOEL: 50 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

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

### 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<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203   |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                         |
| Toxicity to algae                                   | : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): ca. 17 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to bacteria                                | : IC50 : > 320 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209  |
| Ecotoxicology Assessment                            |   |
| Acute aquatic toxicity                              | : Harmful to aquatic life.  |
| Chronic aquatic toxicity                            | : Harmful to aquatic life with long lasting effects.  |

#### Components:

RED TZ 5271:

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

|   |  |
|---|--|
| Toxicity to fish  | : LC50 : > 100 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>GLP: yes  |
| Toxicity to daphnia and other aquatic invertebrates   | : EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 202<br>GLP: yes                                 |
| Toxicity to algae   | : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>GLP: yes   |
| Toxicity to bacteria  | : IC50 : > 1.000 mg/l<br>Exposure time: 3 h<br>Test Type: static test<br>Method: OECD Test Guideline 209<br>GLP: yes   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  | : Lowest Observed Effect Concentration: 34 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test Type: semi-static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 211 |
| N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl): |  |
| Toxicity to fish (Chronic toxicity)   | : GLP: yes   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  | : NOEC: 32 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211   |
| RED TZ 5271:  |  |
| Toxicity to fish  | : LC50 : > 100 mg/l<br>Exposure time: 96 h<br>Test Type: static test<br>Method: OECD Test Guideline 203<br>GLP: yes  |
| Toxicity to daphnia and other aquatic invertebrates   | : EC50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br>Test substance: Fresh water<br>Method: OECD Test Guideline 202<br>GLP: yes                                 |

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to bacteria : IC50 : > 1.000 mg/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Lowest Observed Effect Concentration: 34 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

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Toxicity to fish (Chronic toxicity) : GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 32 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A  
  
Biodegradation: 11 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) : 0 mgO<sub>2</sub>/g

Chemical Oxygen Demand (COD) : ca. 1000 mgO<sub>2</sub>/g

#### Components:

RED TZ 5271:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 2 %  
Exposure time: 28 d

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

Method: OECD Test Guideline 301A

Result: Not biodegradable

Biodegradation: 11 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) : 0 mgO<sub>2</sub>/g  
Incubation time: 5 d  
GLP: yes

Chemical Oxygen Demand (COD) : 838 mgO<sub>2</sub>/g

Stability in water : Degradation half life (DT50): > 1 yr (25 °C) pH: 4  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): 212 hrs (25 °C) pH: 7  
Method: OECD Test Guideline 111  
Remarks: Fresh water

Degradation half life (DT50): < 1 d (25 °C) pH: 9  
Method: OECD Test Guideline 111  
Remarks: Fresh water

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Biodegradability : Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

Biochemical Oxygen Demand (BOD) : 0 mgO<sub>2</sub>/g  
Incubation time: 5 d  
Method: Directive 67/548/EEC, Annex V, C.5

Chemical Oxygen Demand (COD) : 93 mgO<sub>2</sub>/g

Stability in water : Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

GLP: No information available.

Method: OECD Test Guideline 111

GLP: No information available.

Method: OECD Test Guideline 111

GLP: No information available.

Method: OECD Test Guideline 111

GLP: No information available.

Method: OECD Test Guideline 111

GLP: No information available.

RED TZ 5271:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: 2 %

Exposure time: 28 d

Method: OECD Test Guideline 301A

Result: Not biodegradable

Biodegradation: 11 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

Biochemical Oxygen  
Demand (BOD)

: 0 mgO<sub>2</sub>/g

Incubation time: 5 d

GLP: yes

Chemical Oxygen Demand  
(COD)

: 838 mgO<sub>2</sub>/g

Stability in water

: Degradation half life (DT50): > 1 yr (25 °C) pH: 4

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): 212 hrs (25 °C) pH: 7

Method: OECD Test Guideline 111

Remarks: Fresh water

Degradation half life (DT50): < 1 d (25 °C) pH: 9

Method: OECD Test Guideline 111

Remarks: Fresh water

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Biodegradability

: Biodegradation: 0 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

Biochemical Oxygen  
Demand (BOD)

: 0 mgO<sub>2</sub>/g

Incubation time: 5 d

Method: Directive 67/548/EEC, Annex V, C.5

Chemical Oxygen Demand

: 93 mgO<sub>2</sub>/g

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

(COD)

Stability in water

: Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

Method: OECD Test Guideline 111  
GLP: No information available.

### 12.3 Bioaccumulative potential

#### Components:

RED TZ 5271:

Partition coefficient: n-octanol/water : log Pow: < -5,5  
Method: OECD Test Guideline 107

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Partition coefficient: n-octanol/water : log Pow: < -2 (20 °C)  
Method: Partition coefficient

RED TZ 5271:

Partition coefficient: n-octanol/water : log Pow: < -5,5  
Method: OECD Test Guideline 107

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Partition coefficient: n-octanol/water : log Pow: < -2 (20 °C)  
Method: Partition coefficient



# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

### 12.4 Mobility in soil

#### Components:

RED TZ 5271:

Distribution among : Koc: < 21 Method: OECD Test Guideline 121  
environmental compartments

RED TZ 5271:

Distribution among : Koc: < 21 Method: OECD Test Guideline 121  
environmental compartments

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : 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..

### 12.6 Other adverse effects

#### Product:

Adsorbed organic bound halogens (AOX) : < .1 %  
Test substance: Chlorine

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Components:

RED TZ 5271:

Adsorbed organic bound halogens (AOX) : 0 %

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Adsorbed organic bound halogens (AOX) : 4.1 %  
Test substance: Chlorine

RED TZ 5271:

Adsorbed organic bound halogens (AOX) : 0 %

N,N'-bis{6-chloro-4-[6-(4-vinylsulfonylphenylazo)-2,7-disulfonic acid-5-hydroxynapht-4-ylamino]-1,3,5-triazin-2-yl}-N-(2-hydroxyethyl):

Adsorbed organic bound halogens (AOX) : 4.1 %  
Test substance: Chlorine

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- |                        |  |
|------------------------|--|
| Product                | : The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : Empty remaining contents.<br>Dispose of as unused product.<br>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

- |                   |   |
|-------------------|---|
| Other regulations | : According to 26 December 2008, Numbered 27092 (Bis), "Ministry of Environment and Forestry; Regulation on preparation and distribution of Safety data sheets regarding for dangerous substances and preparations".<br>Regulation on Classification, Packaging and Labelling of Dangerous Substances and Preparations. Dated 26 December 2008, Numbered 27092 (Bis) Ministry of Environment and Forestry".<br>Regulation on Classification, Labelling and Packaging of Substances and Mixtures. Dated 11 December 2013, Numbered 28848 (Bis) Ministry of Environment and Forestry. |
|-------------------|---|

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

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

|       |  |
|-------|--|
| TSCA  | : On the inventory, or in compliance with the inventory                                      |
| DSL   | : This product contains one or several components that are not on the Canadian DSL nor NDSL. |
| AICS  | : On the inventory, or in compliance with the inventory                                      |
| NZIoC | : On the inventory, or in compliance with the inventory                                      |
| ENCS  | : Low volume exemption   |
| KECI  | : On the inventory, or in compliance with the inventory                                      |
| PICCS | : On the inventory, or in compliance with the inventory                                      |
| IECSC | : On the inventory, or in compliance with the inventory                                      |
| TCSI  | : On the inventory, or in compliance with the inventory                                      |

### Inventories

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

## SECTION 16: Other information

### Full text of R-Phrases

|     |  |
|-----|--|
| R41 | : Risk of serious damage to eyes.          |
| R43 | : May cause sensitisation by skin contact. |
| R45 | : May cause cancer.                        |

### Full text of H-Statements

|      |  |
|------|--|
| H317 | : May cause an allergic skin reaction. |
| H318 | : Causes serious eye damage.           |

### 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.

# SAFETY DATA SHEET

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

**HUNTSMAN**

Enriching lives through innovation

## NOVACRON® DEEP CHERRY S-D IN

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 23.02.2016  |
| 1.2     | 24.06.2016     | 400001013012 | Date of first issue: 22.09.2015 |

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.