

NOVACRON® RED TS-3B

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|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 22.07.2016 |
| 1.1 | 12.08.2016 | 400001012016 | Date of first issue: 22.07.2016 |

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NOVACRON® RED TS-3B

Manufacturer or supplier's details

Company : Huntsman International (India) Pvt. Ltd.
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India: + 91 22 42 87 5333
USA & Canada: 800 424 9300

2. HAZARDS IDENTIFICATION**GHS Classification**

Serious eye damage/eye irritation : Category 1

Skin sensitisation : Category 1

Chronic aquatic toxicity : Category 3

GHS label elements

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.

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P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 + P310 IF 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/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|-------------|-----------------------|
| Naphthalenedisulfonic acid, 2-[[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3, | 89157-03-9 | >= 30 - <= 60 |
| 2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl] | 859511-72-1 | >= 13 - <= 30 |

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

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- Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
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.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : No information available.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
- 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
- Specific extinguishing methods : 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.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.

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Wear respiratory protection when its use is identified for certain contributing scenario.
In case of inadequate ventilation wear respiratory protection.

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.

Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust.
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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.
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.

Conditions for safe storage : Store in original container.
Keep containers tightly closed in a dry, cool 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.

Materials to avoid : No hazardous decomposition products are known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : No data is available on the product itself.

Personal protective equipment

Hand protection

Material : Neoprene gloves

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Break through time : < 1 h
butyl-rubber

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : red

Odour : odourless

Odour Threshold : No data is available on the product itself.

pH : 5 - 7 (20 °C)
Concentration: 20 g/l

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

Initial boiling point and boiling range : No data available

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

Evaporation rate : No data is available on the product itself.

Flammability (solid, gas) : No data is available on the product itself.

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Flammability (liquids) : No data is available on the product itself.

Upper explosion limit : No data is available on the product itself.

Lower explosion limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1 g/cm³

Solubility(ies)

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

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Oxidizing properties : None.

Molecular weight : No data available

10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Stable under recommended storage conditions.
No decomposition if used as directed.

Conditions to avoid : No data available

Incompatible materials : Strong reducing agents

Hazardous decomposition products : Stable under normal conditions.
No decomposition if stored and applied as directed.

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11. TOXICOLOGICAL INFORMATION**Acute toxicity****Components:**

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Acute oral toxicity : LD50(Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]

Acute oral toxicity : LD50(Rat): > 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : No data available

Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Acute dermal toxicity : LD50(Rat, male and female): 2,100 mg/kg
Method: OECD Test Guideline 402

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]

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
GLP: yes

Serious eye damage/eye irritation**Product:**

Species: Rabbit

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Assessment: Stains the eyes
Method: OECD Test Guideline 405
Result: Stains the eyes
GLP: yes

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:**

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

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

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

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Genotoxicity in vivo : Method: OECD Test Guideline 474
Result: negative

Carcinogenicity

No data available

Carcinogenicity - : No data available
Assessment

Reproductive toxicity**Components:**

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Effects on fertility : Species: Rat, male

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Application Route: Oral
Method: OECD Test Guideline 422

Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 421

Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,::

Effects on foetal development : 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

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity**Components:**

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,::

Species: Rat, male and female

NOAEL: 1000 mg/kg

Application Route: Ingestion

Exposure time: 672 h

Number of exposures: 7 d

Method: Subacute toxicity

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,::

Species: Rat, male and female

NOEL: 200 mg/kg

Application Route: Ingestion

Exposure time: 672 h

Method: Subacute toxicity

Repeated dose toxicity - Assessment : No data available

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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

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information**Product:**

Remarks: No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

| | | |
|---------------------------------|---|------------------|
| Toxicity to fish - Product | : | LC50: > 100 mg/l |
| Exposure time: 96 h | | |
| Method: OECD Test Guideline 203 | | |

| | | |
|---|---|--|
| Toxicity to daphnia and other aquatic invertebrates - Product | : | EC50 (Daphnia magna (Water flea)): > 10 - < 100 mg/l |
| Exposure time: 48 h | | |
| Method: OECD Test Guideline 202 | | |

| | | |
|---------------------------------|---|------------------|
| Toxicity to algae - Product | : | EC50: > 100 mg/l |
| Exposure time: 72 h | | |
| Method: OECD Test Guideline 201 | | |

| | | |
|--------------------------|---|-------------------|
| M-Factor (Acute aquatic) | : | No data available |
|--------------------------|---|-------------------|

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toxicity)

Toxicity to fish (Chronic toxicity) : No data available

Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 30 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 202

M-Factor (Chronic aquatic toxicity) : No data available

Toxicity to bacteria - Product : IC50: > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Further information:
No data available

Persistence and degradability

Biodegradability - Product : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Result: Not readily biodegradable.
Biodegradation: 2 %

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Exposure time: 28 d
Method: OECD Test Guideline 302B

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|---|---------------------------|
| Biochemical Oxygen Demand (BOD) - Product | : 0 mgO ₂ /g |
| Chemical Oxygen Demand (COD) - Product | : 920 mgO ₂ /g |
| BOD/COD | : No data available |
| ThOD | : No data available |
| BOD/ThOD | : No data available |
| Dissolved organic carbon (DOC) | : No data available |
| Physico-chemical removability | : No data available |

Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,::

Stability in water : Degradation half life(DT50): 96 d (25 °C) pH: 4
Method: No information available.
GLP: No information available.
Remarks: Fresh water

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]:

Stability in water : Degradation half life(DT50): 41 hrs (25 °C) pH: 4
Method: OECD Test Guideline 111
GLP: yes
Remarks: Fresh water

Degradation half life(DT50): 41 d (25 °C) pH: 7
Method: OECD Test Guideline 111
GLP: yes
Remarks: Fresh water

Degradation half life(DT50): 54 hrs (25 °C) pH: 9
Method: OECD Test Guideline 111
GLP: yes
Remarks: Fresh water

Photodegradation : No data available

Impact on Sewage Treatment : No data available

Bioaccumulative potential

Bioaccumulation : No data available

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Components:

Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,:

Partition coefficient: n-octanol/water : log Pow: < -2 (20 °C)
Method: OECD Test Guideline 107

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]:

Partition coefficient: n-octanol/water : log Pow: < -5.5 (25 °C)
Method: Partition coefficient
GLP: yes

Mobility in soil

Mobility : No data available

Components:

2-Amino-1,5-naphthalenedisulfonic acid, monosodium salt, diazotized, reaction products with 4-[[4-fluoro-6-[[3-[[2-(sulfooxy)ethyl]:

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

Stability in soil : No data available

Other adverse effects

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

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

Ozone-Depletion Potential No data available

Additional ecological information - Product : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

Global warming potential (GWP) : No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

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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.
Do not re-use empty containers.

14. TRANSPORT INFORMATION**International Regulation****IATA**

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

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

Code Not applicable for product as supplied.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****Other international regulations****The components of this product are reported in the following inventories:**

| | |
|--------|--|
| CH INV | : The formulation contains substances listed on the Swiss Inventory |
| 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 | : not determined |
| 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 | : Low volume exemption |
| TCSI | : On the inventory, or in compliance with the inventory |

Inventories

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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

16. OTHER INFORMATION

Date format : dd.mm.yyyy

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.

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