

NOVACRON® SUPER BLACK G

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	30.09.2016	400001013005	Date of first issue: 30.09.2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NOVACRON® SUPER BLACK G

Manufacturer or supplier's details

Company : Huntsman International (India) Pvt. Ltd.
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2. HAZARDS IDENTIFICATION**GHS Classification**

Serious eye damage/eye irritation : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements : **Prevention:**

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection. **Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
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 No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate	17095-24-8	60 - 100
Benzoic acid, 3,5-diamino-2-[(2-sulphophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl	481066-69-7	13 - 30
RED TZ 5271	577954-20-2	1 - 3

4. 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 : Move to fresh air.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial

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- respiration.
Consult a physician after significant exposure.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
Wash contaminated clothing before re-use.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Remove contact lenses.
Rinse immediately with plenty of water for at least 15 minutes.
Seek medical advice.
- If swallowed : Rinse mouth with water.
Do not induce vomiting without medical advice.
If a person feels unwell or symptoms of skin irritation appear, consult a physician.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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.

No data is available on the product itself.
- Hazardous combustion products : No data is available on the product itself.

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 : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

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- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation. |
| 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 | : 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.
Provide sufficient air exchange and/or exhaust in work rooms.
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 | : Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards. |
| Materials to avoid | : No materials to be especially mentioned. |

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

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Dust safety masks are recommended when the dust

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concentration is more than 10 mg/m³.

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
Hand protection	
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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	: 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	: black
Odour	: odourless
Odour Threshold	: No data is available on the product itself.
pH	: 7 - 8 (20 °C) Concentration: 20 g/l
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.
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.

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Relative density	: No data is available on the product itself.
Density	: 1 g/cm ³
Solubility(ies)	
Water solubility	: 100 g/l (30 °C)
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.
Thermal decomposition	: No data is available on the product itself.
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.

10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: Stable under normal conditions.
	Dust may form explosive mixture in air.
Conditions to avoid	: None.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

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

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatoxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

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

Benzoic acid, 3,5-diamino-2-[(2-sulfophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]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

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Acute inhalation toxicity : No data available

Components:

Benzoic acid, 3,5-diamino-2-[(2-sulfophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

Acute dermal toxicity : LD50(Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal 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 administration) : No data available

Skin corrosion/irritation**Components:**

Benzoic acid, 3,5-diamino-2-[(2-sulfophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

RED TZ 5271:

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

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

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation**Product:**

Exposure routes: Skin

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Causes sensitisation.

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Remarks: Causes sensitisation.

Assessment: No data available

Germ cell mutagenicity**Components:**

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

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

Benzoic acid, 3,5-diamino-2-[(2-sulphophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

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

: Method: OECD Test Guideline 473
Result: positive

: Method: OECD Test Guideline 471
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:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

Genotoxicity in vivo : Cell type: Somatic
Application Route: Oral
Dose: 5000 mg/kg
Method: OECD Test Guideline 473
Result: negative

Method: OECD Test Guideline 474
Result: negative

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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 - : No data available
Assessment

Reproductive toxicity

Effects on fertility : No data available

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

Effects on foetal : Species: Rat
development : Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
1,000 mg/kg body weight
Result: No teratogenic effects

Reproductive toxicity - : No data available
Assessment

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity**Components:**

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

Species: Rat
NOAEL: 250 mg/kg
Application Route: Ingestion
Exposure time: 2,160 h
Method: Subchronic toxicity

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Benzoic acid, 3,5-diamino-2-[(2-sulfophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

Species: Rat

NOEL: 1000 mg/kg

Application Route: Ingestion

Exposure time: 672 h

Method: Subacute toxicity

RED TZ 5271:

Species: Rat, male and female

NOEL: 50 mg/kg

Application Route: Ingestion

Exposure time: 28 Days

Method: 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

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information**Product:**

Remarks: No data available

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12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxicity to fish - Product : LC50: ca. 300 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethylsulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 748 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Benzoic acid, 3,5-diamino-2-[(2-sulphophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

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

RED TZ 5271:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202
GLP: yes

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethylsulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:
Toxicity to algae : NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 3.2 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Benzoic acid, 3,5-diamino-2-[(2-sulphophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:

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

RED TZ 5271:

Toxicity to algae : EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus))

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subspicatus)): > 100 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

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

Toxicity to fish (Chronic toxicity) : No data available

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.25 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

RED TZ 5271:

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

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

Toxicity to bacteria - Product : IC50: > 100 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

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Further information:
No data available

Persistence and degradability

Biodegradability - Product : Result: Not readily biodegradable.
Biodegradation: 20 - 30 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Biochemical Oxygen Demand (BOD) - Product : 0 mgO₂/g
Incubation time: 5 d

Chemical Oxygen Demand (COD) - Product : 848 mgO₂/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:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:

Stability in water : Method: No information available.
GLP: No information available.
Remarks: see user defined free text

RED TZ 5271:

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

Photodegradation : No data available

Impact on Sewage Treatment : No data available

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Bioaccumulative potential**Components:**

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:
 Bioaccumulation : Species: Cyprinus carpio (Carp)
 Bioconcentration factor (BCF): < 11
 Remarks: Does not bioaccumulate.

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:
 Partition coefficient: n-octanol/water : log Pow: < -4.34

Benzoic acid, 3,5-diamino-2-[(2-sulfohenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl:
 Partition coefficient: n-octanol/water : log Pow: < -4.5 (20 °C)
 Method: Partition coefficient

RED TZ 5271:
 Partition coefficient: n-octanol/water : log Pow: < -5.5
 Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)ethyl]sulphonyl]phenyl]azo]naphthalene-2,7-disulphonate:
 Distribution among : Koc: < 1.25Method: Directive 67/548/EEC, Annex V, C.19
 environmental compartments
 RED TZ 5271:
 Distribution among : Koc: < 21Method: 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 : 0 %
 Ozone-Depletion Potential No data available

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Additional ecological information - Product : No data available
Global warming potential (GWP) : No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : 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.
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 : On the inventory, or in compliance with the inventory

ENCS : Low volume exemption

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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), 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

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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.

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