NOVACRON® SUPER BLACK R

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SECTION 1. IDENTIFICATION

Product name : NOVACRON® SUPER BLACK R

Manufacturer or supplier's details

Company name of supplier : Archroma U.S., Inc
Address : 5435 77 Center Dr #10
Charlotte,
NC 28217
United States of America (USA)
Telephone : +1 704-353-4100

E-mail address : SDS.hte@archroma.com

Initial Supplier Identifier
Données relatives au fournisseur
Univar Solutions Canada Ltd.
64 Arrow Road
North York, ON M9M 2L9
Telephone: 1-866-686-4827

Emergency telephone number : Europe: +44 1235239670, Middle East/Africa: +44 1235239671, Americas: +1 215 207 0061/+1 866 928 0789 (Toll free), Asia and Pacific: +65 3158 1074.

Recommended use of the chemical and restrictions on use

Recommended use : Textile dye

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Serious eye damage : 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:**
P261 Avoid breathing dust.
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.
Storage:
Not available
Disposal:
P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

Cases of respiratory sensitization have been observed with reactive dyes.
Care should be taken to avoid inhalation
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

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 - 80
Benzoic acid, 3,5-diamino-2-[(2-sulfophenyl)azo]-, disodium salt, reaction products with diazotized 2-[(4-aminophenyl)sulfonyl]ethyl hydrogen sulfate, sodium salts	481066-69-7	10 - 30
7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate	577954-20-2	5 - 10

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	36290-04-7	1 - 5
White mineral oil (petroleum)	8042-47-5	1 - 5
Dodecan-1-ol, ethoxylated	9002-92-0	0.1 - 1

The specific chemical identity and/or exact percentage (concentration) of composition may be withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.
If inhaled	:	Call a physician or poison control centre immediately. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. 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.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment. Avoid inhalation, ingestion and contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Exercise caution when using a high volume water jet as it may scatter and spread fire
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Carbon oxides Sulphur oxides Formaldehyde
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.
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.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. 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	:	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers.
Materials to avoid	:	For incompatible materials please refer to Section 10 of this SDS.
Further information on storage stability	:	Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	1 mg/m3	CA BC OEL
		TWA (Mist)	5 mg/m3	CA AB OEL
		STEL (Mist)	10 mg/m3	CA AB OEL
		TWAEV (Mist)	5 mg/m3	CA QC OEL
		STEV (Mist)	10 mg/m3	CA QC OEL
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

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 concentration is more than 10 mg/m3.

Respiratory 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
Hand protection		
Remarks	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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	:	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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Colour	:	black
Odour	:	odourless
Odour Threshold	:	No data is available on the product itself.
pH	:	5.5 - 6 (20 °C) Concentration: 20 g/l
Melting point/freezing point	:	No data is available on the product itself.
Boiling point	:	No data is available on the product itself.
Flash point	:	No data is available on the product itself.
Evaporation rate	:	No data is available on the product itself.
Flammability (solid, gas)	:	Not expected to form explosive dust-air mixtures.

Flammability (liquids)	:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit	:	No data is available on the product itself.
Lower explosion limit / Lower flammability 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	:	0.611 g/cm3 Bulk density
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.
Decomposition temperature	:	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.
Explosive properties	:	No data is available on the product itself.
Oxidizing properties	:	None.
Particle size	:	No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Dust may form explosive mixture in air.
Conditions to avoid	:	None known.
Incompatible materials	:	None known.

Hazardous decomposition products	:	No decomposition if stored and applied as directed.
Hazardous decomposition products	:	Sulphur Oxides carbon dioxide carbon monoxide formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

tetrasodium 4-amino-5-hydroxy-3,6-bis[[4-[[2-(sulphonatooxy)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 hydrogen sulfate, sodium salts**:**

Acute oral toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
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

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Acute oral toxicity	:	LD50 (Rat): 6,168 mg/kg Assessment: The substance or mixture has no acute oral toxicity

White mineral oil (petroleum):

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: No mortality observed at this dose.

Dodecan-1-ol, ethoxylated:

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

Acute inhalation toxicity : LC50 (Rat): > 1600 mg/m3
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

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

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

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

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

White mineral oil (petroleum):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Dodecan-1-ol, ethoxylated:

Species	:	Rat
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
GLP	:	yes

Serious eye damage/eye irritation

Product:

Species	:	Rabbit
Result	:	Stains the eyes
Assessment	:	Stains the eyes

Components:

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

Species	:	Rabbit
Result	:	No eye irritation

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

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

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

White mineral oil (petroleum):

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Dodecan-1-ol, ethoxylated:

Species	:	Rabbit
Result	:	Eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Causes sensitisation.
Remarks	:	Cases of respiratory sensitization have been observed with reactive dyes. Care should be taken to avoid inhalation Should an individual become sensitized a physician should be consulted and all contact with reactive dyes must cease immediately.

Components:

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

Exposure routes	:	Skin
Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

Exposure routes	:	Skin
Species	:	Humans
Assessment	:	May cause sensitisation by skin contact.
Method	:	Patch Test 24 Hrs.
Result	:	Causes sensitisation.

Exposure routes	:	Respiratory Tract
Species	:	Guinea pig
Assessment	:	May cause sensitisation by inhalation.
Result	:	May cause sensitisation by inhalation.

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

Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

Exposure routes	:	Skin
Species	:	Mouse
Assessment	:	The product is a skin sensitiser, sub-category 1B.
Method	:	OECD Test Guideline 429

White mineral oil (petroleum):

Exposure routes	:	Skin
Species	:	Guinea pig
Method	:	OECD Test Guideline 406

Result : Does not cause skin sensitisation.

Dodecan-1-ol, ethoxylated:

Exposure routes : Skin
Species : Humans
Result : Does not cause skin sensitisation.

Exposure routes : Skin
Species : Guinea pig
Method : Directive 67/548/EEC, Annex V, B.6.
Result : Does not cause skin sensitisation.

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 : Test Type: reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

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

Species: Chinese hamster (male and female)
Application Route: Oral
Method: OECD Test Guideline 475
Result: negative

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

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

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse (male and female)
Dose: 500, 1000, 2000 mg/kg
Method: OECD Test Guideline 474
Result: negative

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

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

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

White mineral oil (petroleum):

Genotoxicity in vitro : Concentration: 12 - 60 ug/plate
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 471
Result: negative

Concentration: 1000 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Cell type: Somatic
Application Route: Intraperitoneal injection
Exposure time: 72 h
Dose: 1 - 5 g/kg
Method: OECD Test Guideline 474
Result: negative

Dodecan-1-ol, ethoxylated:

Genotoxicity in vitro : Concentration: 5 - 50 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Concentration: .5 - 100 µg/L
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Concentration: .0001 - .1 µg/L
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 482

Result: negative
GLP: yes

Concentration: 2000 ug/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: no

Genotoxicity in vivo : Application Route: Intraperitoneal injection
Dose: 100 mg/kg
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Carcinogenicity

Components:

White mineral oil (petroleum):

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	24 month(s)
Dose	:	1200 mg/kg
Frequency of Treatment	:	7 daily
Method	:	OECD Test Guideline 453
Result	:	negative

Reproductive toxicity

Components:

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

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

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

Effects on fertility : Species: Rat, male and female
Dose: 0, 100, 300, 1000 milligram per kilogram
General Toxicity - Parent: NOAEL: >= 1,000 mg/kg body weight
General Toxicity F1: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 421

Effects on foetal development : Species: Rat, male and female
Dose: 0, 100, 300, 1000 milligram per kilogram
General Toxicity Maternal: NOAEL: >= 1,000 mg/kg body weight
Developmental Toxicity: NOAEL: >= 1,000 mg/kg body weight
Method: OECD Test Guideline 421

White mineral oil (petroleum):

Effects on fertility	:	Species: Rat, male and female Application Route: Dermal Method: OECD Test Guideline 415 Result: No effects on fertility and early embryonic development were detected.
Effects on foetal development	:	Species: Rat, female Application Route: Oral General Toxicity Maternal: NOAEL: >= 5,000 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects

Dodecan-1-ol, ethoxylated:

Effects on fertility	:	Species: Rat, male and female Application Route: Oral Target Organs: Liver GLP: yes
Effects on foetal development	:	Species: Rat, male and female Application Route: Dermal Result: No teratogenic effects

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

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

Species	:	Rat, male and female
NOEL	:	1000 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 d
Dose	:	50, 200, 1000
Method	:	OECD Test Guideline 407

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

Species	:	Rat, male and female
NOEL	:	50 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days
Method	:	Subacute toxicity

White mineral oil (petroleum):

Species	:	Rat, male and female
NOEC	:	50 mg/m3
Application Route	:	Inhalation
Test atmosphere	:	dust/mist
Exposure time	:	4 Weeks
Number of exposures	:	7 d
Method	:	OECD Test Guideline 412

Species	:	Rat, male and female
NOAEL	:	>= 2000 mg/kg
Application Route	:	Skin contact
Exposure time	:	13 Weeks
Number of exposures	:	7 d
Method	:	Subchronic toxicity

Dodecan-1-ol, ethoxylated:

Species	:	Rat, male and female
NOAEL	:	110 mg/kg/d
Application Route	:	Ingestion
Exposure time	:	2,160 h
Method	:	Subchronic toxicity

Aspiration toxicity

Components:

White mineral oil (petroleum):

May be fatal if swallowed and enters airways.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 : ca. 300 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 Method: OECD Test Guideline 202
Toxicity to microorganisms	:	IC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

Components:

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

Toxicity to fish	:	LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 203 LC50 : > 100 mg/l Exposure time: 336 h Test Type: flow-through test Test substance: Fresh water Method: OECD Test Guideline 204
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 748 mg/l Exposure time: 48 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOEC (Desmodesmus subspicatus (green algae)): 3.2 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201 EC50 (Desmodesmus subspicatus (green algae)): 25.5 mg/l Exposure time: 72 h Test Type: static test
Toxicity to fish (Chronic toxicity)	:	NOEC (Oryzias latipes (Orange-red killifish)): >= 1,000 mg/l Exposure time: 14 d Test Type: flow-through test Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1.25 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211
Toxicity to microorganisms	:	EC50: > 5,000 mg/l Exposure time: 3 h

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

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test 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 Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 50 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211
Toxicity to microorganisms	:	IC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

Toxicity to fish	:	LC50 : > 100 mg/l Exposure time: 96 h Test Type: static test 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/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates	:	Lowest Observed Effect Concentration (Daphnia magna (Water flea)): 34 mg/l

(Chronic toxicity) Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Toxicity to microorganisms : IC50: > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 37 mg/l
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 39 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

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

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

White mineral oil (petroleum):

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): >= 100 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LL50 (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/aquatic plants : NOECr (Selenastrum capricornutum (green algae)): >= 100 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 1,000 mg/l
Exposure time: 21 d
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.

Dodecan-1-ol, ethoxylated:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.96 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.46 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Selenastrum capricornutum (green algae)): 0.282 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	EC20 (Pimephales promelas (fathead minnow)): 1.07 mg/l Exposure time: 30 d Test substance: Fresh water
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC20 (Daphnia magna (Water flea)): 0.62 mg/l Exposure time: 21 d Test substance: Fresh water
Toxicity to microorganisms	:	EC50 (activated sludge): 140 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg Exposure time: 336 h
Plant toxicity	:	NOEC: >= 100 mg/kg Exposure time: 408 h Method: Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test

Ecotoxicology Assessment

Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

Persistence and degradability

Product:

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

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

Chemical Oxygen Demand (COD) : ca. 850 mgO2/g

Components:

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

Biodegradability : Inoculum: activated sludge
Concentration: 13 mg/l
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

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

Biodegradability : Biodegradation: 2 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

Biodegradation: 13 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

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

Chemical Oxygen Demand (COD) : 896 mgO2/g

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

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 : 0 mgO2/g

Demand (BOD) Incubation time: 5 d

Chemical Oxygen Demand (COD) : 838 mgO2/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

2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 60 %
Exposure time: 28 d

Biodegradation: < 5 %
Exposure time: 28 d
Method: Inherent Biodegradability: Modified MITI Test (II)

White mineral oil (petroleum):

Biodegradability : Inoculum: activated sludge
Result: Inherently biodegradable.
Biodegradation: 31 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

Photodegradation : Test Type: Air
Degradation (direct photolysis): 50 %
Method: QSAR

Dodecan-1-ol, ethoxylated:

Biodegradability : Inoculum: Domestic sewage
Result: Readily biodegradable.
Biodegradation: 73 %
Exposure time: 28 d

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.

Partition coefficient: n- : log Pow: < -4.34

octanol/water

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

Partition coefficient: n-octanol/water : log Pow: < -4.5 (20 °C)
Method: Partition coefficient

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

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

Dodecan-1-ol, ethoxylated:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 310
Exposure time: 2 h
Test substance: Fresh water
Method: Bioaccumulation: Static Fish Test
GLP: no
Remarks: Does not bioaccumulate.

Mobility in soil

Components:

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

Distribution among environmental compartments : Koc: < 1.25
Method: Directive 67/548/EEC, Annex V, C.19

7-Amino-4-hydroxy-8-[[2-sulfo-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-2-naphthalenesulfonic acid, potassium sodium salt coupled with diazotized 2-[(4-amino-5-methoxy-2-methylphenyl)sulfonyl]ethyl hydrogen sulfate**:**

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

Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : 0 %

Components:

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

Adsorbed organic bound halogens (AOX) : 0 %

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

Adsorbed organic bound halogens (AOX) : 0 %

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
Not regulated as dangerous goods

IATA-DGR
Not regulated as dangerous goods

IMDG-Code
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.

National Regulations

TDG
Not regulated as dangerous goods

Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

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

DSL : This product contains one or several components that are not on the Canadian DSL nor NDSL.

AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply. Please contact your sales representative for more information before import into Australia

ENCS : Notified. Allowed to be imported / manufactured only by the

notifiers. Please contact your Archroma sales representative for more information.

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
TSCA	:	All substances listed as active on the TSCA inventory

Inventories

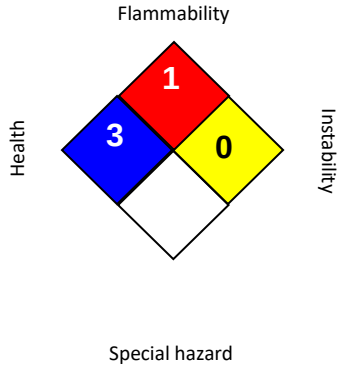
AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

Canada. CEPA 1999 Significant New Activity (SNAc) List
No substances are subject to a Significant New Activity Notification.

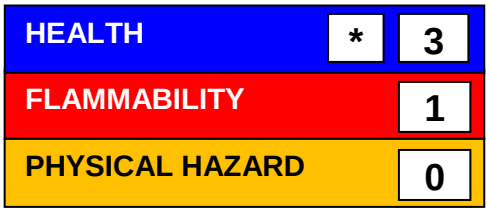
SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard

Revision Date	:	07/21/2023
Date format	:	mm/dd/yyyy

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

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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.

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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