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

1.1. Product identifier
   Trade name
   Savinyl Black RLSN
   Material number: 104213

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Relevant identified uses of the substance or mixture
   Industry sector: Paints, lacquers and varnishes industry
   Type of use: dye for special industries

1.3. Details of the supplier of the safety data sheet
   Identification of the company
   Clariant Produkte (Deutschland) GmbH
   Brueeningstr. 50
   65929 Frankfurt am Main
   Telephone no.: +49 6196 757 60
   Information about the substance/mixture
   Division Pigmentes & Additives
   +49 6196 757 8275/ 6153
   e-mail: PA.PSDYE@clariant.com

1.4. Emergency telephone number
   00800-5121 5121 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

<table>
<thead>
<tr>
<th>Hazard class</th>
<th>Hazard category</th>
<th>H-phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic aquatic</td>
<td>Category 4</td>
<td>May cause long lasting harmful effects to aquatic life.</td>
</tr>
<tr>
<td>toxicity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Classification according EC Directive (67/548/EEC or 1999/45/EC, as amended)

<table>
<thead>
<tr>
<th>Category of danger/Category</th>
<th>Hazard symbol</th>
<th>R - phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>May cause long-term adverse effects in the aquatic environment.</td>
</tr>
</tbody>
</table>

2.2. Label elements
   Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)
   Hazard statements
2.3. Other hazards

May cause long term adverse effects in the aquatic environment.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization
azo dyestuff/1:2 chromium complex, C.I. SOLVENT BLACK 45

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Seek medical assistance if discomfort continues

After inhalation
Remove from danger zone. Obtain medical advice.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes
Immediately rinse eyes with running water and seek medical advice.

After ingestion
Obtain medical advice.

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

Symptoms
No symptoms known currently.

Hazards
No hazards known at this time.

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

Treatment
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

H413 May cause long lasting harmful effects to aquatic life.
Precautionary statements
Avoid release to the environment.
P273 Dispose of contents/container to an approved waste disposal plant.
P501.3
Suitable extinguishing media
  water
  dry powder
  foam

Extinguishing media that must not be used for safety reasons
  No restrictions

5.2. Special hazards arising from the substance or mixture
  carbon oxides
  chromium oxides
  nitrogen oxides

5.3. Advice for firefighters

  Special protective equipment for firefighting
  Use self-contained breathing apparatus

  Further information
  Cool container and metallic parts with a water spray jet
  Set up threefold fire attack, use extinguishants singly or in combination, equip branchman
  and support team with respiratory protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
  Wear suitable personal protective equipment.

6.2. Environmental precautions
  Do not allow to enter drains or waterways

6.3. Methods and material for containment and cleaning up
  Take up mechanically and dispose of

6.4. Reference to other sections

  Additional information
  Information regarding Safe handling, see chapter 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
  Advice on safe handling
  Keep container tightly closed.
  Keep container in a well-ventilated place.
Advice on protection against fire and explosion
Avoid formation of dust
Take precautions against accumulation of electrostatic charge
Keep away from sources of ignition
Observe the usual precautionary measures required for chemicals with dust explosive properties (Observe national regulations).

Dust explosion class : ST1 Capable of dust explosion

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

   Exposure limit values
   Exposure limit values are not available.

   DNEL/DMEL values
   DNEL/DMEL values are not available.

   PNEC values
   PNEC values are not available.

8.2. Exposure controls

   General protective measures
   Observe the usual precautions for handling chemicals.

   Hygiene measures
   Observe the usual precautions when handling chemicals.

   Hand protection : Nitrile rubber gloves.
   Minimum breakthrough time / gloves : > 60 min

   Eye protection : safety glasses

   Body protection : working clothes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

   Physical state : solid
   Form : powder
   Colour : black
   Odour : not specified
   pH value : 7.5 (20 °C, 100 g/l)
   Melting point : > 250 °C
Boiling point: (1.013 hPa) not applicable

Boiling point: not determined

Flash point: not applicable

Evaporation rate: not tested.

Flammability

Lower explosion limit: not tested.

Upper explosive limit: not tested.

Combustion number: BZ4 Spread of a glowing fire
Method: Combustibility test safety laboratory

Combustion number: BZ5 Complete combustion with flames
Method: Combustibility test safety laboratory

Vapour pressure: not tested.

Vapour density relative to air: Not applicable

Solubility in water: (20 °C) insoluble

Soluble in ...: fat
not tested.

Soluble in ...: dimethyl sulfoxide
> 10 g/l (20 °C)

Octanol/water partition coefficient (log Pow): unknown (20 °C)

Ignition temperature: not tested.

Self-ignition temperature: not tested.

Thermal decomposition: 210 °C
Method: Dynamic scanning calorimetry (DSC)

Thermal decomposition: 160 °C
Method: isoperibolic decomposition test

Viscosity (dynamic): Not applicable

Oxidizing properties: not tested.

9.2. Other information
Density: 1,39 g/cm³

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid
   None known.

10.5. Incompatible materials
   not known

10.6. Hazardous decomposition products
   When used and handled as intended, none.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

   Acute oral toxicity : LD50 > 2.000 mg/kg (rat)
   Method : 92/69/EC (L383) B.1 * Acute toxicity (oral)

   Acute dermal toxicity : not tested.

   Acute inhalation toxicity : not tested.

   Irritant effect on skin : non-irritant (rabbit)
   Method : 92/69/EC (L383) B.4 * Acute toxicity (skin irritation)

   Irritant effect on eyes : non-irritant (rabbit)
   Method : 92/69/EC (L383) B.5 * Acute toxicity (eye irritation)

   Repeated dose toxicity: not tested.

   Genetic toxicity in vitro :
   Test type : Ames test
   Test system : Strains of Salmonella typhimurium.
   Metabolic activation : with and without
   Result : Positive
   Method : OECD 471. 1983
   Test type : Chromosome Aberration Test
   Test system : Cultured peripheral human lymphocytes
   Metabolic activation : with and without
   Result : Negative
   Method : OECD 473. 1983
   Test type : Mouse Lymphoma Mutagenicity Assay in vitro
   Metabolic activation : with and without
   Result : Negative
   Method : Screening Test

   Assessment of mutagenicity : not tested.

   Assessment of carcinogenicity : not tested.

   Assessment of toxicity to reproduction : not tested.
SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity:
- LC50 > 25 mg/l (96 h, common carp (cyprinus carpio))
- Method: OECD 203 (value = solubility limit with method applied)
- No observable toxic effect in saturated solution.

Daphnia toxicity:
- EC50 > 15 mg/l (48 h, daphnia magna (water flea))
- Method: OECD 202 * 1984 (value = solubility limit with method applied)
- No observable toxic effect in saturated solution.

Algae toxicity: not tested.

Bacteria toxicity: not tested.

12.2. Persistence and degradability

Biodegradability:
- app. 10 %
- Not readily degradable

12.3. Bioaccumulative potential

Bioaccumulation: not tested.

12.4. Mobility in soil

Behaviour in environmental compartments
- No known data.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Additional ecotoxicological remarks
- No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product
- Incineration in an approved, controlled furnace. Observe: fire hazard data, physical and corrosion data.

Uncleaned packaging
- For disposal local regulation is binding.
Composition

C, Cr, H, N, Na, O.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR not restricted
ADNR not restricted
RID not restricted
IATA not restricted
IMDG not restricted

14.6. Special precautions for user
See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Other regulations
Not approved for food contact application, toys application or consumer goods application.

15.2. Chemical safety assessment
No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: Other information

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm³" means "one point three five g/cm³").

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or
freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.