

Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Hesse 2C Reactive Colour lacguer RSB 96284-9010

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

Use of the substance/preparation

Surface treatment of wood and other materials

Identified Uses

REACHSET 2001

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

PROC11 Non industrial spraying

1.3. Details of the supplier of the safety data sheet

Manufacturer

Hesse GmbH & Co. KG Warendorfer Strasse 21

59075 Hamm

Telephone no. +49 (0) 2381 963-00 Fax no. +49 (0) 2381 963-849 E-mail address ps@hesse-lignal.de

1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008 For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains propan-2-ol; 2-methylpropan-1-ol; n-butyl acetate; Hydrocarbons, C9, aromatics

EUH208 Contains formaldehyde, May produce an allergic reaction.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

3. Composition/information on ingredients

Hazardous ingredients

n-butyl acetate

CAS No. 123-86-4 EINECS no. 204-658-1

Registration no. 01-2119485493-29

Concentration >= 20 < 25 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

STOT SE 3 H336 Nervous system

EUH066

2-methylpropan-1-ol

CAS No. 78-83-1 EINECS no. 201-148-0

Registration no. 01-2119484609-23

Concentration >= 1 < 3 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226

STOT SE 3 H335 Respiratory tract

Skin Irrit. 2 H315 Eye Dam. 1 H318

STOT SE 3 H336 Nervous system

propan-2-ol



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

CAS No. 67-63-0 EINECS no. 200-661-7

Registration no. 01-2119457558-25

Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225 Eye Irrit. 2 H319

STOT SE 3 H336 Nervous system

Hydrocarbons, C9, aromatics

EINECS no. 918-668-5

Registration no. 01-2119455851-35

Concentration >= 1 < 3 %

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 3 H226 Asp. Tox. 1 H304 Aquatic Chronic 2 H411

STOT SE 3 H335 Respiratory tract STOT SE 3 H336 Nervous system

EUH066

formaldehyde

CAS No. 50-00-0 EINECS no. 200-001-8

Registration no. 01-2119488953-20

Concentration < 0,1 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H311 Route of exposure: Dermal

exposure

Acute Tox. 2 H330 Route of exposure: Inhalation

exposure
e Tox. 3 H301 Route of exposure: Oral exposure

Acute Tox. 3 H301 Skin Corr. 1B H314 Eye Dam. 1 H318 Skin Sens. 1A H317 Muta. 2 H341 Carc. 1B H350

Concentration limits (Regulation (EC) No. 1272/2008)

 Skin Sens. 1A
 H317
 >= 0,2 %

 STOT SE 3
 H335
 >= 5 %

 Skin Irrit. 2
 H315
 >= 5 < 25 %</td>

 Eye Irrit. 2
 H319
 >= 5 < 25 %</td>

 Skin Corr. 1B
 H314
 >= 25 %

40.0011

cellulose nitrate < =12.6 % N

CAS No. 9004-70-0 Classification (Regulation (EC) No. 1272/2008)

Expl. 1.1 H201

Further ingredients

ethanol

CAS No. 64-17-5



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

EINECS no. 200-578-6

Registration no. 01-2119457610-43

Concentration >= 10 < 25 %

Advice: [3]

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2 H225

Note

[3] Substance with occupational exposure limits

4. First aid measures

4.1. Description of first aid measures

General information

If unconscious place in recovery position and seek medical advice. In all cases of doubt, or when symptoms persist, seek medical attention. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

After ingestion

Do not induce vomiting. Take medical treatment.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. High concentration of vapours may cause irritation to eyes and respiratory system and produce narcotic effects.

4.3. Indication of any immediate medical attention and special treatment needed Hints for the physician / treatment

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist

Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard. Vapours can form an explosive mixture



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

with air.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion evolution of dangerous gases possible. Use self-contained breathing apparatus.

Other information

Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses. Standard procedure for chemical fires.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. Do not inhale vapours. Do not inhale gases. Do not inhale mist.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate ventilation. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do no eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Fight fire with normal precautions from a reasonable distance.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

leakage.

Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

Storage classes

Storage class according to TRGS 510 3

Flammable liquid

Further information on storage conditions

Protect from frost. Protect from heat and direct sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

7.3. Specific end use(s)

See exposure scenario, if available.

8. Exposure controls/personal protection

8.1. Control parameters

Other information

-

Derived No/Minimal Effect Levels (DNEL/DMEL)

propan-2-ol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure Dermal exposure
Mode of action Chronic effects

Concentration 888 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Long-term
inhalative
Chronic effects

Concentration 500 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Chronic effects

Concentration 89 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Chronic effects

Concentration 26 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer
Duration of exposure Long-term
Route of exposure Dermal exposure



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Mode of action Systemic effects

Concentration 319 mg/kg/d

2-methylpropan-1-ol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action
Consentration
Local effects

Concentration 310 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Local effects

Concentration 55 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Local effects

Concentration 25 mg/kg/d

n-butyl acetate

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 11 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Short-term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 600 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure

Route of exposure

Mode of action

Concentration

Short-term inhalative
Local effects
600

Concentration 600 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure inhalative
Mode of action Local effects

Concentration 300 mg/m³



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020

Replaces Version: 16 / GB Print date: 17.08.20

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure
Route of exposure
Mode of action

Concentration

Long-term
inhalative
Systemic effects

Concentration 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 6 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 2 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group
Duration of exposure
Route of exposure
Mode of action
Concentration
Consumer
Short-term
inhalative
Systemic effects
300

Concentration 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consequents to a constant of the con

Concentration 300 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

inhalative

Systemic effects

Concentration 35,7 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consentration

Consent

Concentration 35,7 mg/m³

ethanol

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Duration of exposure Short-term
Route of exposure inhalative
Mode of action Local effects
Concentration 1900

1900 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term

Route of exposure Dermal exposure Mode of action Systemic effects

Concentration 343 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Long-term
inhalative
Systemic effects

Concentration 960 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Concentration

Consumer

Short-term
inhalative

Acute effects

Concentration 960 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 206 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term
inhalative

Systemic effects

Concentration 114 mg/m³

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects

Concentration 87 mg/kg/d

Hydrocarbons, C9, aromatics

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure Oral exposure

Mode of action Systemic effects



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020

Replaces Version: 16 / GB Print date: 17.08.20

Concentration 11 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term
Route of exposure Dermal exposure
Mode of action Systemic effects

Concentration 25 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 11 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (professional)

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 150 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Systemic off

Mode of action Systemic effects

Concentration 32 mg/kg

formaldehyde

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Short-term
Route of exposure inhalative
Mode of action Local effects
Concentration 0,8

Concentration 0,8 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Concentration

Long-term
Dermal exposure
Systemic effects
240

Concentration 240 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term
Route of exposure inhalative
Mode of action Systemic effects

Concentration 9 mg/m³

Type of value Derived No Effect Level (DNEL)



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Reference group Workers (industrial)

Duration of exposure
Route of exposure
Mode of action
Consentration

Volker (Industrie)
Long-term
Dermal exposure
Local effects

Concentration 0,037 mg/cm²

Type of value Derived No Effect Level (DNEL)

Reference group Workers (industrial)

Duration of exposure Long-term
Route of exposure inhalative
Mode of action Local effects
Concentration 0.4

Concentration 0,4 mg/kg

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Systemic effects

Concentration 102 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group Consumer

Duration of exposure Long-term

Route of exposure inhalative

Mode of action Systemic effects

Concentration 3,2 mg/cm²

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Oral exposure

Systemic effects

Concentration 4,1 mg/kg/d

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consumer

Long-term

Dermal exposure

Local effects

Concentration 0,012 mg/cm²

Type of value Derived No Effect Level (DNEL)

Reference group

Duration of exposure

Route of exposure

Mode of action

Consentration

Consumer

Long-term

inhalative

Local effects

Concentration 0,1 mg/m³

Predicted No Effect Concentration (PNEC)

propan-2-ol

Type of value PNEC Freshwater



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020

Replaces Version: 16 / GB Print date: 17.08.20

Concentration 140,9 mg/l

Type of value PNEC Type Saltwater

Concentration 140,9 mg/l

Type of value PNEC

Conditions sporadic release

Concentration 140,9 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 552 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 552 mg/kg

Type of value PNEC Type Soil

Concentration 28 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 2251 mg/l

2-methylpropan-1-ol

Type of value PNEC Freshwater

Concentration 0,4 mg/l

Type of value PNEC Saltwater

Concentration 0,04 mg/l

Type of value PNEC

Conditions sporadic release

Concentration 11 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 1,52 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 0,152 mg/kg

Type of value PNEC Type Soil

Concentration 0,0699 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020

Replaces Version: 16 / GB Print date: 17.08.20

Concentration 10 mq/l

n-butyl acetate

PNEC Type of value Type Freshwater

Concentration 0,18 mg/l

Type of value **PNEC** Type Saltwater

Concentration 0,018 mg/l

Type of value **PNEC**

Type Sewage treatment plant (STP)

Concentration 35.6 mg/l

PNEC Type of value Type Water

Conditions sporadic release

Concentration 0,36 mg/l

PNEC Type of value

Type Fresh water sediment

Concentration 0,981 mg/kg

Type of value **PNEC**

Type saltwater sediment

Concentration 0,0981 mg/l

PNEC Type of value

Type Soil

Concentration 0,0903 mg/kg

ethanol

PNEC Type of value Type Freshwater

Concentration 0,96

mg/l

PNEC Type of value

Type marine water

Concentration 0,79 mg/l

Type of value **PNEC**

Conditions sporadic release

Concentration 2,75 mg/l

PNEC Type of value

Type Sewage treatment plant (STP)

Concentration 580 mg/l

PNEC Type of value

Type Fresh water sediment

Concentration 3,6 mg/kg



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Type of value PNEC

Type saltwater sediment

Concentration 2,9 mg/kg

Type of value PNEC Type Soil

Concentration 0,63 mg/kg

formaldehyde

Type of value PNEC
Type Freshwater

Concentration 0,47 mg/l

Type of value PNEC

Type marine water

Concentration 0,47 mg/l

Type of value PNEC

Type Fresh water sediment

Concentration 2,44 mg/kg

Type of value PNEC

Type saltwater sediment

Concentration 2,44 mg/kg

Type of value PNEC Type Soil

Concentration 0,21 mg/kg

Type of value PNEC

Type Sewage treatment plant (STP)

Concentration 0,19 mg/l

8.2. Exposure controls

Exposure controls

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7 mm

Breakthrough time >= 30 min

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid
Colour coloured
Odour solvent-like

Odour threshold

Remarks not determined

pH value

Remarks not determined

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Remarks not determined

Flash point

Value < 21 °C

Evaporation rate

Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value appr. 1,112 kg/l

Temperature 20 °C



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Solubility in water

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux time

Value 52 to 64 s

Temperature 20 °C

Method DIN 53211 4 mm

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information

Non-volatile content

Value 52.4 %

Method calculated value

Other information

This information is not available.

10. Stability and reactivity

10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NOx), dense black smoke, No decomposition if used as prescribed.



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

formaldehyde

Species rat

LD50 299 mg/kg

Acute dermal toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

formaldehyde

Species rabbit

LD50 270 mg/kg

Acute inhalational toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)

formaldehyde

ATE 0,05 mg/l

Duration of exposure 4 h

Administration/Form Dust/Mist
Method conversion value

Skin corrosion/irritation

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation (Components)

2-methylpropan-1-ol

Species rabbit

Duration of exposure 8 d Observation Period 24 h

evaluation Skin irritation

Method Value taken from the literature Source 2 (reliable with restrictions)

formaldehyde

evaluation Causes burns.

Serious eye damage/irritation

evaluation irritant

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks The classification criteria are met.

Serious eye damage/irritation (Components)

propan-2-ol



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Species rabbit

Observation Period 14 devaluation Irritating to eves.

Source 1 (reliable without restriction)

2-methylpropan-1-ol

Species rabbit

Observation Period 14 d

evaluation irritant - risk of serious damage to eyes

Source 1 (reliable without restriction)

formaldehyde Sensitization

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Sensitization (Components)

formaldehyde

evaluation May cause sensitization by skin contact.

Mutagenicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Mutagenicity (Components)

formaldehyde

evaluation Mutagenic Category 2

Reproductive toxicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity (Components)

formaldehyde

evaluation Carcinogenic Category 1

Specific Target Organ Toxicity (STOT)

Single exposure

Method Calculation method (Regulation (EC) No. 1272/2008)

Remarks The classification criteria are met. evaluation May cause drowsiness or dizziness.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) (Components)

propan-2-ol

Specific target organ toxicity - single exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

2-methylpropan-1-ol

Specific target organ toxicity - single exposure



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Organs: Respiratory tract

Remarks May cause respiratory irritation.

2-methylpropan-1-ol

Specific target organ toxicity - single exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

n-butyl acetate

Specific target organ toxicity - repeated exposure

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Route of exposure inhalative

Remarks Possible narcotic effects (drowsiness, dizziness).

Hydrocarbons, C9, aromatics

Specific target organ toxicity - single exposure

Remarks Possible narcotic effects (drowsiness, dizziness).

Aspiration hazard

Based on available data, the classification criteria are not met.

Other information

No toxicological data are available.

12. Ecological information

12.1. Toxicity

General information

For this subsection there is no ecotoxicological data available on the product as such.

Fish toxicity (Components)

Hydrocarbons, C9, aromatics

Species Oncorhynchus mykiss (rainbow trout)

LC50 9,2 mg/l

Duration of exposure 96 h

Daphnia toxicity (Components)

Hydrocarbons, C9, aromatics

Species Daphnia magna (Water flea)

EC50 3,2 mg/l

Duration of exposure 48 h

Hydrocarbons, C9, aromatics

Species Daphnia magna (Water flea)

NOEC 2,14 mg/l

Duration of exposure 21 d

formaldehyde

Species Daphnia magna (Water flea)

NOEC 25 mg/l

Duration of exposure 35 d

formaldehyde



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Species Daphnia magna (Water flea)

EC50 5,8 mg/l

Duration of exposure 48 h

Algae toxicity (Components)

Hydrocarbons, C9, aromatics

Species Pseudokirchneriella subcapitata (green algae) EC50 2,6 to 2,9 mg/l

Duration of exposure 72 h

12.2. Persistence and degradability

General information

For this subsection there is no ecotoxicological data available on the product as such.

Biodegradability (Components)

Hydrocarbons, C9, aromatics

evaluation Readily biodegradable.

12.3. Bioaccumulative potential

General information

For this subsection there is no ecotoxicological data available on the product as such.

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

For this subsection there is no ecotoxicological data available on the product as such.

Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

General information

For this subsection there is no ecotoxicological data available on the product as such.

12.6. Other adverse effects

General information

For this subsection there is no ecotoxicological data available on the product as such.

General information / ecology

For this subsection there is no ecotoxicological data available on the product as such.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic

solvents or other dangerous substances

EWC waste code 200127 - paint, inks, adhesives and resins containing

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.



Trade name: Hesse 2C Reactive Colour lacquer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 080113 - sludges from paint or varnish containing organic

solvents or other dangerous substances

EWC waste code 080115 - aqueous sludges containing paint or varnish

containing organic solvents or other dangerous substances

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those

falling under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated

by dangerous substances

Completely emptied packagings can be given for recycling. Completely emptied packagings can be given for recycling.

14. Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	D/E		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label	***	***	***
14.4. Packing group	II	II	II
Special provision	640D		
Limited Quantity	51		
Transport category	2		

15. Regulatory information

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

VOC

VOC (EU) 46,9 % 521 g/l



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

15.2. Chemical safety assessment

For this substance / mixture a chemical safety assessment was not carried out.

16. Other information

Hazard statements listed in Chapter 3

EUH066 Repeated exposure may cause skin dryness or cracking. H201 Explosive; mass explosion hazard.

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 2 Acute toxicity, Category 2
Acute Tox. 3 Acute toxicity, Category 3

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2

Asp. Tox. 1 Aspiration hazard, Category 1
Carc. 1B Carcinogenicity, Category 1B
Expl. 1.1 Explosive, Division 1.1

Eye Dam. 1 Serious eye damage, Category 1
Eye Irrit. 2 Eye irritation, Category 2
Flam. Liq. 2 Flammable liquid, Category 2
Flam. Liq. 3 Flammable liquid, Category 3
Muta. 2 Germ cell mutagenicity, Category 2

Skin Corr. 1B Skin corrosion, Category 1B
Skin Irrit. 2 Skin irritation, Category 2
Skin Sens. 1A Skin sensitization, Category 1A

STOT SE 3 Specific target organ toxicity - single exposure, Category 3

Abbreviations

Flam. Liq - Flammable liquids

RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning theInternational Transport of Dangerous Goods by Rail)

IMDG - International Maritime Code for Dangerous Goods

IATA - International Air Transport Association

IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS - Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

LOAEL - Lowest Observed Adverse Effect Level

LOEL - Lowest Observed Effect Level

NOAEL - No Observed Adverse Effect Level NOEC - No Observed Effect Concentration

NOEL - No Observed Effect Level

OECD - Organisation for Econpmic Cooperation and Development

VOC - Volatile Organic Compounds

Changes since the last version are highlighted in the margin (***). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

ES003 - Professional uses: Non industrial spraying (inside)

Use of the substance/preparation

Surface treatment of wood and other materials

Use

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

PROC11 Non industrial spraying

Contributing exposure scenario controlling environmental exposure

Use

ERC8a Wide dispersive indoor use of processing aids in open systems
ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

Physical form liquid

Maximum amount used per time or activity

Emission days per site: <= 250

Other relevant operational conditions

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter soil, waterways or waste water canal.

Dispose of rinse water in accordance with local and national regulations.

Waste water

Do not discharge into the drains/surface waters/groundwater. Spray cabin waters are to be conducted



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

after mechanical pretreatment into a wastewater treatment facility.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

Floors should be impervious, resistant to liquids and easy to clean.

Disposal recommendations for the product

EWC waste code 080111 - waste paint and varnish containing organic

solvents or other dangerous substances

200127 - paint, inks, adhesives and resins containing

dangerous substances

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

modified product

EWC waste code 080113 - sludges from paint or varnish containing organic

solvents or other dangerous substances

080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

Dried residues

EWC waste code 080112 - waste lacquers and waste paint except those

falling under 080111

Disposal recommendations for packaging

EWC waste code 150110 - packaging containing residues of or contaminated

by dangerous substances

Completely emptied packagings can be given for recycling. Completely emptied packagings can be given for recycling.

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number: CES006

Use

SU22 Professional uses: Public domain (administration, education, entertainment,

services, craftsmen)

PROC11 Non industrial spraying

Physical form liquid

Maximum amount used per time or activity

Duration of exposure <= 8 h/d Frequency of exposure <= 220 d/a

Other relevant operational conditions

Use: Room temperature

Drying and through-curing takes place at ambient temperature or at higher temperatures.

Volatile organic substances will volatilise into the atmospheric air inside.

Read attached instructions before use.

Product substance and product safety related measures

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable



Trade name: Hesse 2C Reactive Colour lacguer RSB 96284-9010

Version: 17 / GB Revision: 06.08.2020
Replaces Version: 16 / GB Print date: 17.08.20

this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

Respiratory protection

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

Hand protection

Protective gloves complying with EN 374.

Glove material

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7 Breakthrough time >= 30

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Eye protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

Exposure estimation and reference to its source

Workers (professional)

SU SU22
PROC PROC11
Assessment method Long-term inhalative

Exposure assessment 242 mg/m³
Exposure assessment (method) ECETOC TRA
Risk characterisation ratio (RCR) 0,504
Lead substance n-butyl acetate

Information on estimated exposure and downstream-user guidance

Guidance for Downstream Users

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.