

complication date: 02.11.2020

Version No.: 3

according to 1907/2006/EC, Article 31

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product name: COLORBERRY CRYSTAL RESIN - HARDENER

Product code: CRYSTAL RESIN - HARDENER

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

No further relevant information available.

· Application of the substance / the mixture Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet

Company name: COLORBERRY GmbH

Wolfersberg 1

85667 Oberpframmern

Germany

Tel.: 0049-151-1001 61 31 **email:** kontakt@colorberry.de

1.4 EMERGENCY TELEPHONE NUMBER

Tel.: 0049-151-1001 61 31

(Mo.-Fr. 8.00 o'clock to 18:00 o'clock office hours only)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye

damage.

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Regulation (EC) No 1272/2008:



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.



2.2 Label elements

Labelling according to Regulation (EC) No

1272/2008:

The product is classified and labelled according to the CLP regulation.

GHS05 GHS07

Hazard pictograms:

Singnal word: Danger

Hazard-determining Formaldehyde, polymer with N-(3-aminopropyl)-1,3-propanediamine

components of labelling: 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

Hazard statements: H302+H312+H332 Harmful if swallowed, in contact with skin or if

inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements: P303+P361+P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P321 Specific treatment (see on this label).

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

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterisation: Mixtures

· Description: Epoxy resin hardener, modified polyamine adduct

Dangerous components:

CAS: 161278-35-9 Polymer	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332 Formaldehyde, polymer with N-(3-aminopropyl)- 1,3-propanediamine	25-50%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol Tox. 4, H302; Acute Tox. 4, H332	25-50%
Reg.nr.: 01-2119492630-38- CAS: 2855-13-2		10-25%
EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for

transportation.

After skin contact: Immediately wash with water and soap and rinse

thoroughly.Immediately rinse with water. Seek medical treatment.

After eye contact: Rinse opened eye for several minutes under running water. Then consult

a doctor.

After swallowing: If symptoms persist consult doctor.

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

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available



SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced. In case of fire, the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment: Mount respiratory protective device.

Wear self-contained breathing apparatus and chemical-protective

clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions, Mount respiratory protective device.

protective equipment and Wear protective equipment. Keep unprotected persons away.

emergency procedures:

6.2 Environmental precautions:

Environmental precautions: IDo not allow to enter sewers/ surface or ground water.

6.3 Methods and materials for containment and cleaning up:

Clean-up prodecures: Absorb with liquid-binding material (sand, diatomite, acid binders,

universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections

Reference to other sections: See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and

explosion protection: respiratory protective device available.



7.2 Conditions for safe storage, including any incompatibilities:

Storage: Requirements to be No special requirements.

met by storerooms and

receptacles:

Information about storage in Do not store together with oxidising and

one common storage facility: acidic materials. Avoid contact of the product with copper, nickel, zinc, tin

or it alloys. Risk of corrosion! Keep container tightly sealed.

Further information about

storage conditions:

7.3 Specific end use(s):

No further relevant information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit

values that require

Observe the appropriate biological threshold value

(TRGS 903 - Germany). The value and other data of

monitoring at TRGS 900 Germany must be observed

the workplace:

DNELs

38294-64-3 Reaction products of 3- am inomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

Oral Long term - systemic effects 0.5 mg/kg bw/day (general population)

Dermal Long term - systemic effects 0.05 mg/kg bw/day (general population)

0.14 mg/kg bw/day (worker)

Inhalalative Long term - systemic effects 0.074 mg/m³ (general population)

0.493 mg/m³ (worker)

PNECs

38294-64-3 Reaction products of 3- am inomethyl-3,5,5-trimethylcyclohexylamine and 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane

PNEC aqua 0.111 mg/L (Intermittent releases)

0.011 mg/L (fresh water)

0.001 mg/L (marine water)

PNEC sediment 4,320 mg/kg sediment (fresh water)

432 mg/kg sediment (marine water)

PNEC STP 10 mg/l (sewage)

PNEC soil 864 mg/kg soil dw (soil)

Additional information: The lists valid during the making were used as basis.



8.2 Exposure controls

· Personal protective equipment:

General protective and

The usual precautionary measures are to be adhered to when handling

hygienic measures: chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In

case of intensive or longer exposure

use self-contained respiratory protective device.

Protection of hands:



Protective gloves

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: 3 0,7 mm

Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be

observed. For the mixture of chemicals mentioned below the penetration

time has to be at least 480 minutes

(Permeation according to EN 374 Part 3: Level 6).

Eye protection:



Tightly sealed goggles

Body protection: Protect

Protective work clothing. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical protection suit (according to EN 14605 in case of splashes or EN

ISO 13982 in case of dust).



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information | Appearance:

Form: Fluid

Color: Yellowish

Odour: Amine-like

Odour threshold: Not determined.

PH-value at 20 °C: 11.5

Change in condition

Melting point/freezing point: in °C
Initial boiling point and >200 °C

boiling range:

Flash point: 98 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 300 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: 1.2 Vol % **Upper:** 13.0 Vol %

Vapour pressure at 20 °C: Not determined.

Density at 20 °C: 1.01 g/cm³

Relative density Not determined.

Vapour density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

aromatic hydrocarbons: Not miscible or difficult to mix.

organic solvents: Not miscible or difficult to mix.

Partition coefficient: n- Not determined.

octanol/water:

Viscosity:

Dynamic at 20 °C: 300 mPas

Kinematic: Not determined.

Solvent content:

Organic solvents: 100,0%

9.2 Other information No further relevant information available.



SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity: No further relevant information available.

10.2 Chemical stability:

Chemical stability: Thermal decomposition / conditions to be avoided: No decomposition if

used according to specifications.

10.3 Possibility of hazardous reactions:

Possibility of hazardous Reacts with acids.

reactions:

10.4 Conditions to avoid:

Conditions to avoid: No further relevant information available.

10.5 Incompatible materials:

Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Hazardous decomposition No dangerous decomposition products known.

products:

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: Harmful if swallowed, in contact with skin or if inhaled.

LD/LC50 values relevant for 100-51-6 Benzyl alcohol

classification: Oral LD50 1,610 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

2855-13-2 3-Aminomethyl-3,5,5-trimethyl-cyclohexylamin

Oral LD50 1,030 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye Causes serious eye damage.

damage/irritation:

Respiratory or skin sensitisation: May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

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



SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: 100-51-6 Benzyl alcohol

LC50/96h 460 mg/l (Pimephales promelas (fathead minnow)

EC50/48h 230 mg/l (Daphnia magna (Big water flea)

EC50/72h 770 mg/l (Algae) as IC50 value

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

EC50/48h 23 mg/l (Daphnia magna (Big water flea) LC50/96h 110 mg/l (Brachydanio rerio (zebra-fish) EC50/72h 37 mg/l (Scenedesmus subspicatus)

12.2 Persistence and degradability

Persistence and No further relevant information available.

degradability:

12.3 Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil

Mobility in soil: No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological Water hazard class 2 (German Regulation) (Self-assessment): hazardous

information: for wate. Do not allow product to reach ground water, water course or

General notes: sewage system. Must not reach sewage water or drainage ditch

sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the

aqueous waste, emptied into drains, is only low water-dangerous.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

Other adverse effects: No further relevant information available.



SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Chemicals must be disposed of in compliance with the respective national regulations.

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Emty containers should be at state of the art emptied as far as possible before disposal.

Recommendation: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA: UN2735

14.2 UN proper shipping name

ADR: 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Formaldehyde, polymer with

IMDG, IATA: N-(3-aminopropyl)-1,3-propanediamine, ISOPHORONEDIAMINE)

AMINES, LIQUID, CORROSIVE, N.O.S. (Formaldehyde, polymer with N-(3-

aminopropyl)-1,3-propanediamine, ISOPHORONEDIAMINE)

14.3 Transport hazard class(es)

ADR, IMDG, IATA:



Class: 8 Corrosive substances.

Label: 8

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Warning: Corrosive substances.

Danger code (Kemler): 80

EMS Number: F-A,S-B

Stowage Category A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.



Transport/Additional information:

ADR

Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category: 3

Tunnel restriction code: E

IMDG:

Limited quantities (LQ): 5L

Excepted quantities (EQ): Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 2289 ISOPHORONEDIAMINE SOLUTION, 8, III

SECTION 15. REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 GHS07

Signal word: Danger

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.



SECTION 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS: CEO

Contact: Mrs. Stephanie Walberer

Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.