



Material Safety Data Sheet

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

Product:	Universal Colour Paste
Manufacturer:	Conrad Electronic SE
Address:	Klaus-Conrad-Str. 1, D-92240 Hirschau
Telephone:	+49 (0) 9604 / 40 - 8988
Date of issue:	13.09.2019

1.1. Product identifier

Universal Colour Paste

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

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2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements: May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Fettsäure, C18-ungesät., Trimere, Vbgn.mit Oleylamin

Fettsäure, Talloel, Verbindung mit Oleylamin

[N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyanintrimethylaminato(2-)-N29,N

Signal word: Warning

Pictograms:





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Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of Water and soap.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

2.3. Other hazards

No information available.



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3. Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No.	Chemical name			Quantity
	EC No.	Index No.	REACH No.	
	GHS Classification			
123-86-4	n-butyl acetate			2,5 < 5 %
	204-658-1		01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336			
147900-93-4	Fettsäure, C18-ungesät., Trimere, Vbgn.mit Oleylamin			0,25 < 0,5 %
	604-612-4		01-2119971821-33	
	Acute Tox. 4, Skin Sens. 1, STOT RE 2, Aquatic Chronic 2; H302 H317 H373 H411			
85711-55-3	Fettsäure, Talloel, Verbindung mit Oleylamin			0,25 < 0,5 %
	288-315-1		01-2119974148-28	
	Eye Dam. 1, Skin Sens. 1A, STOT RE 2; H318 H317 H373			
28654-73-1	[N,N,N',N',N",N"-hexaethyl-29H,31H-phthalocyanintrimethylaminato(2-)-N29,N			0,1 < 0,25 %
	249-125-4		01-2119971074-38	
	Skin Sens. 1B; H317			

Full text of H and EUH statements: see section 16.

4. First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use for cleaning purposes.: Solvent/Thinner.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.



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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide, Powder, Water spray jet.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: , Gases/vapours, harmful

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate affected area. Do not breathe vapour.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. 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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Do not use for cleaning purposes.: Solvent/Thinner.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Only use the material in places where open light, fire and other flammable sources can be kept away. Use explosion-proof electrical equipment. Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Suitable floor material: conductive Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). When using do not eat, drink or smoke. Never use pressure to empty container.

Advice on protection against fire and explosion

Vapours are heavier than air. Vapours can form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Never use pressure to empty container. Store in a place accessible by authorized persons only. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from: Strong acid, Strong alkali, Oxidizing agents.

Further information on storage conditions

Notice the directions for use on the label. Store in a well-ventilated place. Store in a dry place. Recommended storage temperature: 5 25 °C. Protect against direct sunlight. Remove all sources of ignition.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.



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8. Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No.	Substance	ppm	mg/m ³	fibres / ml	Category.	Origin
123-86-4	n-butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. In case of inadequate ventilation wear respiratory protection.

Protective and hygiene measures

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

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Wear suitable gloves. (DIN EN 374)

Thickness of glove material: > 0,4 mm

penetration time (maximum wearing period): > 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Protect skin by using skin protective cream. Use protective skin cream before handling the product.

Skin protection

Wear suitable protective clothing. (antistatic) Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Observe the wear time limits according GefStoffV

in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	various
Odour:	characteristic
pH-Value:	not determined

Changes in the physical state

Melting point:	not applicable
Initial boiling point and boiling range:	124 °C
Flash point:	not applicable

Flammability

Solid:	not determined
Gas:	not applicable

Explosive properties

not applicable	
Lower explosion limits:	1,2 vol. %
Upper explosion limits:	7,5 vol. %
Ignition temperature:	390 °C

Auto-ignition temperature

Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not applicable

Oxidizing properties

not applicable	
Vapour pressure:	0,38 hPa (at 20 °C)
Density (at 20 °C):	1,18 g/cm ³
Water solubility:	practically insoluble

Solubility in other solvents

not determined	
Partition coefficient:	not determined
Viscosity / dynamic:	Paste
Viscosity / kinematic:	Paste
Vapour density:	not applicable
Evaporation rate:	not applicable
Solvent content:	4 Wt %
	Water: 0 Wt %



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9.2. Other information

Solid content: 95,65 %
Odour threshold: not determined

10. Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Strong acid, Strong alkali, Oxidizing agents.

10.5. Incompatible materials

Strong acid, Strong alkali, Oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products: Carbon monoxide, Carbon dioxide (CO₂), , Nitrogen oxides (NO_x).



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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

CAS No.	Chemical name			
	Exposure route	Dose	Species	Source
147900-93-4	Fettsäure, C18-ungesät., Trimere, Vbgn.mit Oleylamin			
	oral	ATE 500 mg/kg		

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Fettsäure, C18-ungesät., Trimere, Vbgn.mit Oleylamin; Fettsäure, Talloel, Verbindung mit Oleylamin; [N,N,N',N'',N''-hexaethyl-29H,31H-phthalocyanintrimethylaminato(2-)-N29,N)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Overall Assessment on CMR properties: This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

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.

Practical experience

Other observations

Irritation to respiratory tract , Causes damage to organs.: liver, kidneys, central nervous system. The following symptoms may occur: Headache, Dizziness, , , Drowsiness, Unconsciousness.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Following eye contact: Irritant



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12. Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

13. Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste disposal number of waste from residues/unused products

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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14. Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Keep container tightly closed.

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

not applicable



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15. Regulatory information

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

EU regulatory information

2010/75/EU (VOC): 51 g/L

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - clearly water contaminating

Additional information

Berufsgenossenschaftliche Regeln (BGR)

BGR 190

BGR 192

BGR 195

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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16. Other information

Abbreviations and acronyms

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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)