

SAFETY DATA SHEET

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

Identification of the substance/preparation

Product Code KU560-R-4
Product name KU560 rigid NHS-ester

Company/Undertaking identification

KU dyes
Universitetsparken 5
DK2100 København Ø
Denmark
+45 35320213

24 hour emergency respons: +45 35320213

For reserch use only. Not intended for human or animal diagnostics or therapeutic uses.

2) Hazards identification

In accordance with local and national regulations,

The product is classified and labelled in accordance with Directive 1999/45/EC. Regulation (EC) No 1272/2008. Classified according to EU Directive 67/548/EEC or 199/45/EC.

European Union



EU Specific Health Statements

Risk phrases (R-phrases)

R22	Harmful if swallowed
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Safety phrases (S-phrases)

S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S36/37	Wear Suitable protective clothing and gloves

Revision data:
Product Code:

1

07-09-2017
Product Name: KU560-R-4

SAFETY DATA SHEET

United Kingdom

GHS – Classification

Signal word

Warning



Health hazards

Acute oral toxicity	Category 4
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Physical hazards

Not hazardous	-
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Hazard statements

H302	Harmful if swallowed
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Precautionary statements

P301- P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you fell unwell
P264	Wash hands thoroughly after handling
P330	Rinse mouth

Principle Routes of Exposure/Potential Health Effects

Eyes	May cause irritation with susceptible persons
Skin	May be harmful in contact with skin
Inhalation	May be harmful by inhalation
Ingestion	Harmful if swallowed

Specific effects

Carcinogenic effects	none
Mutagenic effects	Substances which cause concern for man which the available information is not adequate for making a satisfactory assessment
Reproductive toxicity	none
Sensitisation	none
Target Organ Effects	No known effects under normal use conditions

3) Composition/information on ingredients

Chemical Name	CAS No	EINECS No	Weight %
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA	1841395-05-8	-	100

The product contains no substances which at their given concentration are considered to be hazardous to health. KU likes recommend handling chemicals with caution.

Revision data:
Product Code:

2

07-09-2017
Product Name: KU560-R-4

SAFETY DATA SHEET

4) FIRST AID MEASURES

Skin contact	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms arise, call a physician.
Ingestion	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Inhalation	Move to fresh air. If symptoms arise, call a physician. If not breathing, give artificial respiration.
Notes to physician	Treat symptomatically

5) FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical. Sand.

Suitable protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See section 12 for further information

7) HANDLING AND STORAGE

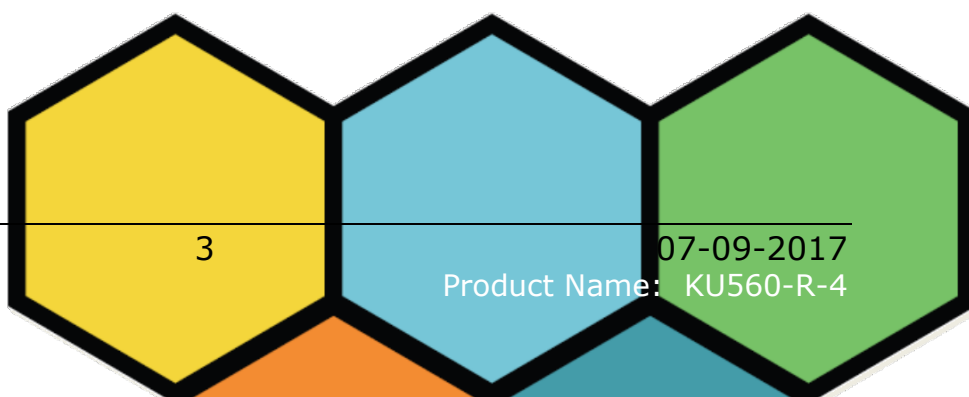
Handling Avoid contact with skin, eyes, and clothing. Wear personal protective equipment.

Storage Keep in a dry, cool, and well-ventilated place.

Revision data:
Product Code:

3

07-09-2017
Product Name: KU560-R-4



SAFETY DATA SHEET

8) Exposure controls/personal protection

Exposure limits

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU skin notation
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None	None	None

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL(TWA)
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None	None	None	None

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL(TWA)
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None	None	None	None

Chemical Name	Sweden OEL - TLVs (VME)	Netherlands OEL (MAC)	Spain OEL (TWA)	UK
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None	None	None	None

Chemical Name	European Union	Portugal	Poland	Switzerland
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None	None	None	None

Chemical Name	Norway			
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA 1841395-05-8	None			

Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Person Protective equipment requirements are dependent on the users institution's risk assesment and are specific to the risk assesment for each laboratory where this material may be used.

Revision data:
Product Code:

4

07-09-2017

Product Name: KU560-R-4

SAFETY DATA SHEET

<u>Respiratory protection</u>	In case of insufficient ventilation wear suitable respiratory equipment
<u>Hand protection</u>	Impervious gloves
<u>Eye protection</u>	Safety glasses with side-shields
<u>Skin & Body protection</u>	Lightweight protective clothing
<u>Hygiene measures</u>	Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Prevent product from entering drains.

9) PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	Solid
Appearance	No information available
Odour	No information available
Boiling point	No data available °C/°F
Melting point	No data available °C/°F
Flash point	No data available °C/°F
Autoignition temperature	No data available °C/°F
Oxidising properties	No information available
Water solubility	No data available

10) STABILITY AND REACTIVITY

Stability	Stable under normal conditions
Materials to avoid	No dangerous reaction known under the conditions of normal use
Hazardous decomposition products	None under normal use
Polymerisation	Hazardous polymerisation does not occur

11) TOXICOLOGICAL INFORMATION

Acute Toxicity

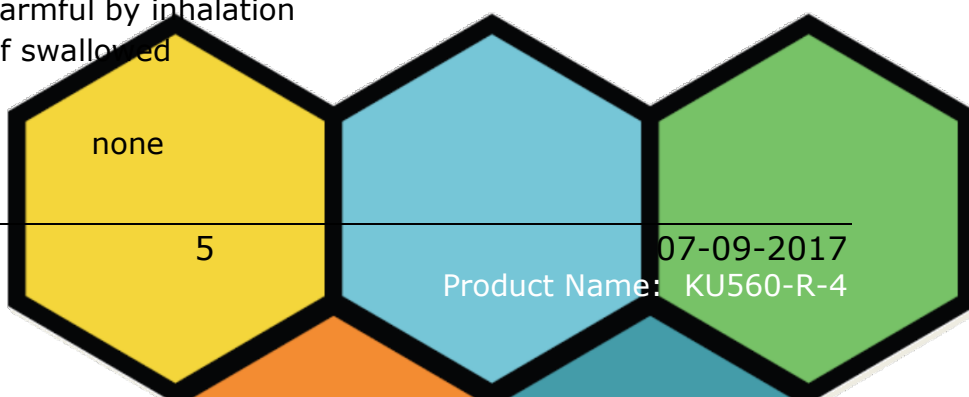
Chemical Name	LD50 Oral rat/mouse	LD50 Dermal rat/rabbit	LD50 Inhalation rat/mouse
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA	No data available	No data available	No data available

Principle Routes of Exposure/Potential Health Effects

Eyes	May cause irritation with susceptible persons
Skin	May be harmful in contact with skin
Inhalation	May be harmful by inhalation
Ingestion	Harmful if swallowed

Specific effects

Carcinogenic effects



Revision data:
Product Code:

07-09-2017

Product Name: KU560-R-4

SAFETY DATA SHEET

Mutagenic effects	Substances which cause concern for man which the available information is not adequate for making a satisfactory assessment
Reproductive toxicity	none
Sensitisation	none
Target Organ Effects	No known effects under normal use conditions

12) ECOLOGICAL INFORMATION

Ecotoxicity effects	No information available.
Mobility	No information available.
Biodegradation	Inherent biodegradable.
Bioaccumulation	Does not bioaccumulate.

13) DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14) TRANSPORT INFORMATION

IATA

Proper shipping name	Not classified as dangerous in the meaning of transport regulations
Hazard class	None
Subsidiary class	None
Packing group	None
UN No.	None

15) Regulatory information

International Inventories

Complies

Chemical name	EINECS	ELINCS	ENCS	PICCS
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA	-	-	-	-

Chemical name	AICS	KECL	DSL	NDSL
N-(4-(benzoic acid hydroxycuccinimid ester)-N'-methyl-DAOTA	-	-	-	-

16) OTHER INFORMATION

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Revision data:
Product Code:

6

07-09-2017
Product Name: KU560-R-4

SAFETY DATA SHEET

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Safety Data Sheet

Revision data:
Product Code:

7

07-09-2017
Product Name: KU560-R-4

