

# SAFETY DATA SHEET

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

### Identification of the substance/preparation

Product Code KU530-R-4  
Product name KU530 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

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## 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 <i>N</i> -hydroxysuccinimide ester)-ADOTA	1809275-18-0	-	100

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

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## 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 (CO<sub>2</sub>). 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

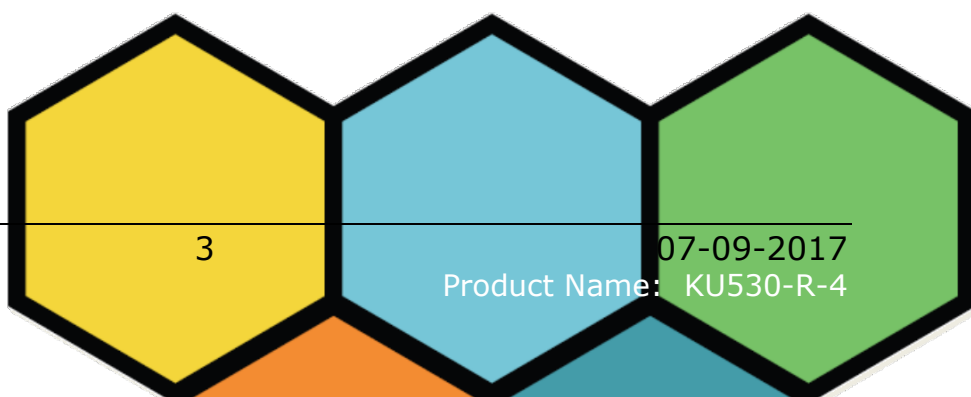
**Handling** Avoid contact with skin, eyes, and clothing. Wear personal protective equipment.

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

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## 8) Exposure controls/personal protection

### Exposure limits

Chemical Name	EU OEL (TWA)	EU OEL (STEL)	EU skin notation
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	None	None	None

Chemical Name	Austria	Belgium (TWA)	Denmark (TWA)	Finland OEL(TWA)
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	None	None	None	None

Chemical Name	France OEL (VME)	Germany OEL (TWA)	Ireland (TWA)	Italy OEL(TWA)
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	None	None	None	None

Chemical Name	Sweden OEL - TLVs (VME)	Netherlands OEL (MAC)	Spain OEL (TWA)	UK
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	None	None	None	None

Chemical Name	European Union	Portugal	Poland	Switzerland
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	None	None	None	None

Chemical Name	Norway			
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA 1809275-18-0	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.

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<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 &amp; 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

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

## 10) STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions
<b>Materials to avoid</b>	No dangerous reaction known under the conditions of normal use
<b>Hazardous decomposition products</b>	None under normal use
<b>Polymerisation</b>	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 <i>N</i> -hydroxysuccinimide ester)-ADOTA	No data available	No data available	No data available

### Principle Routes of Exposure/Potential Health Effects

Eyes	May cause irritation with susceptible persons
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## Specific effects

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Reproductive toxicity	none
Sensitisation	none
Target Organ Effects	No known effects under normal use conditions

## 12) ECOLOGICAL INFORMATION

<b>Ecotoxicity effects</b>	No information available.
<b>Mobility</b>	No information available.
<b>Biodegradation</b>	Inherent biodegradable.
<b>Bioaccumulation</b>	Does not bioaccumulate.

## 13) DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

## 14) TRANSPORT INFORMATION

### IATA

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

## 15) Regulatory information

### International Inventories

Complies

Chemical name	EINECS	ELINCS	ENCS	PICCS
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA	-	-	-	-

Chemical name	AICS	KECL	DSL	NDSL
N-(4-(benzoic acid <i>N</i> -hydroxysuccinimide ester)-ADOTA	-	-	-	-

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## 16) OTHER INFORMATION

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

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

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