



MATERIAL SAFETY DATA SHEET

CREATININE liquicolor

1. Information of the Substance / Preparation and of the Company		
1.1	Product	CREATININE liquicolor
	[REF]	10051 This applies also for respective Cat.Nos. for bulk, neutral and OEM products.
1.2	Company	HUMAN Gesellschaft für Biochemica und Diagnostica mbH, Max-Planck-Ring 21, 65205 Wiesbaden, Germany ☎: +49 (0) 6122 99 88 0; Fax: +49 (0) 6122 99 88 100 eMail: human@human.de
1.3	Emergency contact:	☎: +49 (0) 6122 99 88 0; Fax: +49 (0) 6122 99 88 100 eMail: human@human.de

2. Composition / Information on Ingredients					
2.1 Contents:					
[REF]		[RGT]	Reagent	Quantity	Formula
10051	Complete kit	[PIC]	Picric acid	1 x 100 ml	-
		[NaOH]	Sodium Hydroxide	1 x 100 ml	-
		[STD]	Standard	1 x 5 ml	-
2.2 Dangerous ingredients:					
Component	Substance	CAS	R-Phrases	Symbol acc. relative concentration	Concentration
[PIC]	Picric acid	EG-Nr.: 2018659	R: 2-4-23/24/25 S: 28-35-37-45		0,6%
[NaOH]	Sodium Hydroxide	1310-73-2	R: 35 S: 1/2-26-37/39-45		6.7%
2.3 Classification of Kit in accordance with relative concentration of dangerous ingredients					
Corrosive		R 35: Causes severe burns. S 26-37/39-45: In case of contact with the eyes immediately rinse thoroughly with water and consult a doctor; At work wear proper protective gloves and protective goggles / face protection; In case of an accident or sickness immediately consult a doctor (if possible, show this label)			

3. Hazards Identification
Irritating to eyes, respiratory system and skin

4. First-aid Measures	
Eye contact	Wash with copious amounts of water for several minutes. Assure adequate flushing of eyes by separating the eyelids. Seek medical advice.
Skin contact	Instantly rinse with plenty of water and apply disinfectant. Seek medical advice.
Ingestion	Rinse out mouth, and seek medical advice.
Inhalation	Fresh air. Seek medical advice.
Direction for physician	Symptomatic treatment, possibility of infection and allergenic reactions.

5. Fire-fighting Measures	
Extinguishing media	Water, foam, depending on environment.
Thermal decomposition	Dangerous decomposition products and gases which are damaging to health in large quantities are not anticipated.
Further data	Not yet available

6. Accidental Release Measures	
After spillage	Wear protective clothing, soak up with absorbent material (i.e. vermiculite, cotton fleece), dispose material as biochemical waste in accordance with regulations; rinse well with disinfectant, followed by water.

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Absorbent material	No restrictions
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7. Handling and Storage

7.1 Handling	Substance itself does not burn. Handle with care.
7.2 Storage	Store at 15..25°C.

8. Exposure Controls / Personal Protection

Respiratory protection:	If gas or dust formation occurs.
Eye protection:	Yes
Hand protection:	Yes
	Wear gloves, goggles and protective clothing. Wash and disinfect hands after work and before breaks. Change contaminated clothing immediately.

9. Physical and Chemical Properties

	[PIC]	[NaOH]	[STD]	
Appearance	Liquid	Liquid	Liquid	
Colour	Yellow	Colourless	Colourless	
Odour	None	None	None	
pH (@20°C)	≈ 3	≈ 14	≈ 7	
Melting point	Similar to H ₂ O	Similar to H ₂ O	Similar to H ₂ O	
Boiling point	Similar to H ₂ O	Similar to H ₂ O	Similar to H ₂ O	
Flash point	n/a	n/a	n/a	
Ignition temp.	n/a	n/a	n/a	
Explosion limits, Lower	n/a	n/a	n/a	
Upper	n/a	n/a	n/a	
Vapour pressure	Similar to H ₂ O	Similar to H ₂ O	Similar to H ₂ O	
Density	≈ 1g/ml	≈ 1g/ml	≈ 1g/ml	
Solubility in water	Soluble	Soluble	Soluble	
Further data	Dil. aqueous solution	Dil. aqueous solution	Dil. aqueous solution	

10. Stability and Reactivity

Hazardous reactions	None known when used appropriately
Conditions to avoid	High temperature, freezing
Hazardous decomposition products	Not known

11. Toxicological Information

Toxicological data for the preparation is not available. The preparation contains aqueous solutions of sodium hydroxide and picric acid, respectively, and may therefore cause burns. Contact with eyes may cause irreversible damage. If swallowed, severe burns may occur to mucous membranes and the digestive tract system. Nausea, vomiting and respiratory difficulties, as well as increased pulse rate and/or hypersensitivity cannot be excluded.

12. Ecological Information

Ecological data for this product is not available. No ecological problems are expected when the product is handled and used with due care and attention.

13. Disposal Considerations

Chemicals and biochemical residues and remains should be routinely handled as special waste. These must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. European waste catalogue: 180103 wastes whose collection and disposal is subject to special requirements in order to prevent infection.

14. Transport Information


UN	GGVE	RID/ADR	ICAO/IATA	IMDG/EMS	MFAG
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1824	-	Class: 8 Code: C5 PG: II LQ22 TC: 2	Class: 8 PG: II PASS: 851 CAO: 855	-	-
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15. Regulatory Information

Symbol	Warning	R-Phrases	Contents
	Corrosive	R: 35 S: 1/2-24/25-26-45	Sodium hydroxide
NAOH	WGK = 1		6,7% Sodium hydroxide

16. Other Information

The information herein is based on the current extent of our knowledge and is believed to be correct, but is provided without warranty of any kind. The recipient of our product is responsible for observing all applicable laws and regulations.