

BCY01

Revision date: 11.02.2024

Page 1 of 10

## 1. Identification

### Product identifier

BCY01

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

#### Use of the substance/mixture

Aktivator

### Details of the supplier of the safety data sheet

Company name: Hottinger Brüel & Kjaer  
Street: Im Tiefen See 45  
Place: D-64293 Darmstadt  
Telephone: +49 (0)6151 803-0  
Internet: www.hbm.com  
Responsible Department: +49(0)6131 19240 support@hbm.com

**Emergency telephone number:** 1703-741-5970

## 2. Hazard identification

### Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Flam. Liq. 2; H225  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
STOT SE 3; H336  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

### Label elements

#### Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



#### Hazard statements

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.

#### Special labelling of certain mixtures

Restricted to professional users.  
Restricted to professional users.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

BCY01

Revision date: 11.02.2024

Page 2 of 10

**Pictograms:****Precautionary statements**

P280-P201

**Other hazards**

No information available.

**3. Composition/information on ingredients****Mixtures****Hazardous components**

CAS No	Chemical name	Quantity
64742-49-0	Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	50 - 100 %
110-82-7	cyclohexane	5 - < 10 %
110-54-3	n-hexane	0,1 - < 1 %
99-97-8	N,N-dimethyl-p-toluidine	0,1 - < 1 %

Full text of H statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
110-54-3	203-777-6	n-hexane	0,1 - < 1 %
		STOT RE 2; H373: $\geq 5 - 100$	
99-97-8	202-805-4	N,N-dimethyl-p-toluidine	0,1 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	

**Further Information**

No information available.

**4. First-aid measures****Description of first aid measures****General information**

First aider: Pay attention to self-protection!

**After inhalation**

Remove casualty to fresh air and keep warm and at rest.

If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Wash with plenty of soap and water.

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

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Let water be drunk in little sips (dilution effect).

BCY01

Revision date: 11.02.2024

Page 3 of 10

**Most important symptoms and effects, whether acute or delayed**

No information available.

**Indication of immediate medical attention and special treatment needed**

Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>)  
alcohol resistant foam  
Extinguishing powder

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the hazardous product**

Highly flammable  
In use, may form flammable/explosive vapour-air mixture.

**Special protective equipment and precautions for fire-fighters**

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

**Additional information**

Suppress gases/vapours/mists with water spray jet.  
Use water spray jet to protect personnel and to cool endangered containers.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition.  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with eyes and skin.  
Use personal protection equipment.

**For non-emergency personnel**

Remove persons to safety.

**For emergency responders**

First aider: Pay attention to self-protection!

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.

**Methods and material for containment and cleaning up****For cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

**Reference to other sections**

Safe handling: see section 7  
Wear personal protection equipment (refer to section 8).  
Disposal: see section 13

**7. Handling and storage****Precautions for safe handling**

## BCY01

Revision date: 11.02.2024

Page 4 of 10

**Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.  
Do not breathe gas/fumes/vapour/spray.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Separate storage of work clothes.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Vapours can form explosive mixtures with air.

**Further information on handling**

No information available.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.  
Keep container tightly closed in a cool, well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Hints on joint storage**

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances

**Further information on storage conditions**

No information available.

**8. Exposure controls/Personal protection****Control parameters****Additional advice on limit values**

No information available.

**Exposure controls****Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.  
In use, may form flammable/explosive vapour-air mixture.  
Use explosion-proof electrical equipment.  
Use non-sparking tools.

**Protective and hygiene measures**

When using do not eat or drink.  
Do not breathe gas/fumes/vapour/spray.  
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.  
Wear suitable protective clothing, gloves and eye/face protection.  
Draw up and observe skin protection programme.

**Eye/face protection**

Wear eye/face protection.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. EN ISO 374  
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.

**BCY01**

Revision date: 11.02.2024

Page 5 of 10

Thickness of the glove material:  $\geq 0,7\text{mm}$   
 Suitable gloves type NBR (Nitrile rubber)  
 Breakthrough time:  $>480\text{ min}$   
 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.

**Skin protection**

Used working clothes should not be worn outside the work area.  
 Separate storage of work clothes.  
 Wear anti-static footwear and clothing

**Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Filtering device (full mask or mouthpiece) with filter: a  
 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.  
 The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

**9. Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	colourless
Odour:	Solvents

pH-Value:	not determined
-----------	----------------

**Changes in the physical state**

Melting point/freezing point:	@1718.B0172 °C
Boiling point or initial boiling point and boiling range:	93-97 °C
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
not determined:	

Flash point:	-4 °C
Sustaining combustion:	No data available

**Flammability**

Solid/liquid:	not applicable
---------------	----------------

**Explosive properties**

Es sind keine Daten für die Mischung verfügbar.

Lower explosive limits:	0,84 vol. %
Upper explosive limits:	6,7 vol. %
Auto-ignition temperature:	205 °C

**Self-ignition temperature**

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
----------------------------	----------------

**Test method**

## BCY01

Revision date: 11.02.2024

Page 6 of 10

**Oxidizing properties**

Es sind keine Daten für die Mischung verfügbar.

Vapour pressure: (at 20 °C)	47 hPa
Vapour pressure: (at 50 °C)	189 hPa
Density (at 20 °C):	0,7 g/cm <sup>3</sup>
Bulk density:	not determined
Water solubility:	not determined OECD 116

**Solubility in other solvents**

nicht bestimmt

Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined
Solvent separation test:	not determined
Solvent content:	15,00 %

**Other information**

Solid content:	not determined
----------------	----------------

**10. Stability and reactivity****Reactivity**

Flüssigkeit und Dampf leicht entzündbar.

**Chemical stability**

Das Produkt ist bei Lagerung bei normalen Umgebungstemperaturen stabil.

**Possibility of hazardous reactions**

Es sind keine gefährlichen Reaktionen bekannt.

**Conditions to avoid**

Von Wärmequellen fernhalten (z.B. heiße Oberflächen), Funken und offenen Flammen. Dämpfe können mit Luft explosionsfähige Gemische bilden.

**Incompatible materials**

Es liegen keine Informationen vor.

**Hazardous decomposition products**

Es sind keine gefährlichen Zersetzungsprodukte bekannt.

**Further information**

No information available.

**11. Toxicological information****Information on toxicological effects****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) 14286 mg/kg; ATE (dermal) 42857 mg/kg; ATE (inhalation vapour) 428,6 mg/l; ATE (inhalation dust/mist) 71,43 mg/l

## BCY01

Revision date: 11.02.2024

Page 7 of 10

CAS No	Chemical name				
	Route of exposure	Dose	Species	Source	Method
99-97-8	N,N-dimethyl-p-toluidine				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			

**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitizing effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

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

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

Das Gemisch ist als gefährlich eingestuft im Sinne der Verordnung (EG) Nr. 1272/2008 [CLP]. Besondere vom Stoff oder Gemisch ausgehende Gefahren!

**Practical experience**

No information available.

**Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other information**

No information available.

**Further information**

No information available.

**12. Ecological information****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
110-54-3	n-hexane					
	Acute fish toxicity	LC50 2,5 mg/l	96 h	Pimephales promelas	Geiger et al. 1990	

**Persistence and degradability**

No information available.

BCY01

Revision date: 11.02.2024

Page 8 of 10

**Bioaccumulative potential**

Es liegen keine Informationen vor.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
110-54-3	n-hexane	3,9
99-97-8	N,N-dimethyl-p-toluidineN,N-dimethyl-p-toluidine	2,81

**Mobility in soil**

No information available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**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****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

This material and its container must be disposed of as hazardous waste.

**14. Transport information****Canadian TDG**

<b><u>UN number or ID number:</u></b>	UN 1206
<b><u>Proper shipping name:</u></b>	HEPTANES
<b><u>Hazard classes:</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3
Limited quantity:	1L

**Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1206
<b><u>United Nations proper shipping name:</u></b>	HEPTANES
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



## BCY01

Revision date: 11.02.2024

Page 9 of 10

Marine pollutant:	P
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D

**Air transport (ICAO-TI/IATA-DGR)**

<b>UN number:</b>	UN 1206
<b>United Nations proper shipping name:</b>	HEPTANES
<b>Transport hazard class(es):</b>	3
<b>Packing group:</b>	II
Hazard label:	3



Special Provisions:	A3
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:	Yes
----------------------------	-----



Danger releasing substance:	Heptane
-----------------------------	---------

**15. Regulatory information****Canadian regulations****16. Other information****Changes**

This data sheet contains changes from the previous version in section(s): 6.

**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%

BCY01

Revision date: 11.02.2024

Page 10 of 10

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Asp. Tox. 1; H304	
Skin Irrit. 2; H315	
STOT SE 3; H336	
Aquatic Chronic 2; H411	Calculation method

**Relevant H statements (number and full text)**

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*