

BCY01

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1. Identification

Product identifier

BCY01

UFI: RJNT-SUVA-84MS-VRDH

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Activator

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: support@hbm.com

Emergency phone number: +49-30-18412-0

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No. 1272/2008

Flammable liquids: Flam. Liq. 2
Aspiration hazard: Asp. Tox. 1
Germ cell mutagenicity: Muta. 1B
Carcinogenicity: Carc. 1B
Hazardous to the aquatic environment: Aquatic Chronic 2

Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
May cause genetic defects
May cause cancer
Toxic to aquatic life with long lasting effects

Precautionary statements

Obtain special instructions before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.

Special labelling of certain mixtures

Restricted to professional users.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

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Pictograms:**Hazard statements**

H304-H340-H350

Precautionary statements

P201-P280

Hazards not otherwise classified

No information available.

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

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

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
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	
110-54-3	203-777-6	n-hexane	0,1 -< 1 %
		STOT RE 2; H373: >= 5 - 100	

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. In case of respiratory tract irritation, consult a physician.

After contact with skin

IF ON SKIN: Wash with plenty of soap and water.

Take off immediately all contaminated clothing and wash it before reuse.

In case of skin reactions, consult a physician.

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. Do NOT induce vomiting. Let water be drunken in little sips (dilution effect). IF

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SWALLOWED: Immediately call a doctor.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Carbon dioxide (CO₂), alcohol resistant foam, Extinguishing powder

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Highly flammable. Vapors may form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

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

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Remove all sources of ignition. Do not breathe gas/fume/vapor/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

Methods and material for containment and cleaning up**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

Personal protection equipment (PPE): see section 8

Disposal: see section 13

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

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fume/vapor/spray.

Wash hands before breaks and after work.

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.

Vapors may form explosive mixtures with air.

Further information on handling

No information available.

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Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep 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

Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
110-82-7	Cyclohexane	300	1050		TWA (8 h)	PEL
		300	1050		TWA (8 h)	REL
110-54-3	n-Hexane	500	1800		TWA (8 h)	PEL
		50	180		TWA (8 h)	REL

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 vapor-air mixture.
Use explosion-proof electrical equipment.
Use only non-sparking tools.

Protective and hygiene measures

When using do not eat or drink.
Do not breathe gas/fume/vapor/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.
Thickness of the glove material: $\geq 0,7\text{mm}$
Suitable gloves type NBR (Nitrile rubber)
Breakthrough time: $>480\text{ min}$

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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/vapor/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 vapors are heavier than air and can accumulate in high concentrations on the ground, in cavities, channels and cellars.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	colorless
Odor:	Solvent

Test method

pH-Value: not determined

Changes in the physical state

Melting point/freezing point: not determined

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

Gas: not applicable

Explosive properties

There are no data available on the mixture itself.

Lower explosion limits: 0,84 vol. %

Upper explosion limits: 6,7 vol. %

Auto-ignition temperature: 205 °C

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

There are no data available on the mixture itself.

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Vapor pressure: (at 20 °C)	47 hPa
Vapor pressure: (at 50 °C)	189 hPa
Density (at 20 °C):	0,7 g/cm ³
Bulk density:	not determined
Water solubility:	not determined OECD 116
Solubility in other solvents not determined	
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 %
<u>Other information</u>	
Solid content:	not determined

10. Stability and reactivity**Reactivity**

Highly flammable liquid and vapor.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.

Incompatible materials

No information available.

Hazardous decomposition products

No known hazardous decomposition products.

Further information

No information available.

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

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

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CAS No	Components				
	Exposure route	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 aerosol	ATE 0,5 mg/l			

Irritation and corrosivity

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

May cause genetic defects (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha)

May cause cancer (Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha)

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (IARC): N,N-Dimethyl-p-toluidine (CAS 99-97-8) is listed in group 2B.

Aspiration hazard

May be fatal if swallowed and enters airways

Specific effects in experiment on an animal

No information available.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Specific hazards arising from the chemical!

Practical experience

No information available.

Information on other hazards**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	Components					
	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

other non-biodegradable wastes

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Bioaccumulative potential

No information available.

Partition coefficient n-octanol/water

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

Mobility in soil

The product has not been tested.

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.
Wassergefährdungsklasse 2 - wassergefährdend

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. Handle contaminated packages in the same way as the substance itself.

14. Transport information**US DOT 49 CFR 172.101**

<u>UN/ID number:</u>	UN 1206
<u>Proper shipping name:</u>	HEPTANES
<u>Transport hazard class(es):</u>	3
<u>Packing group:</u>	II
Hazard label:	3

**Marine transport (IMDG)**

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




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

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Air transport (ICAO-TI/IATA-DGR)

UN number:	UN 1206
UN proper shipping name:	HEPTANES
Transport hazard class(es):	3
Packing group:	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

Special precautions for user

Warning: Combustible liquid.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information**U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:

Cyclohexane (110-82-7): Reportable quantity = 1,000 (454) lbs. (kg)

n-Hexane (110-54-3): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (64742-49-0): Delayed (chronic) health hazard

Cyclohexane (110-82-7): Fire hazard, Immediate (acute) health hazard

N,N-dimethyl-p-toluidine (99-97-8): Immediate (acute) health hazard, Delayed (chronic) health hazard

n-Hexane (110-54-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA Section 313 Toxic release inventory:

Cyclohexane (110-82-7): De minimis limit = 1.0 %, Reportable threshold = Standard

n-Hexane (110-54-3): De minimis limit = 1.0 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

n-Hexane (110-54-3)

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

WARNING: This product can expose you to chemicals including N,N-Dimethyl-p-toluidine (cancer); n-Hexane (reproductive), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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16. Other information

Changes

Revision date: 03/16/2021

Revision No: 2,3

This data sheet contains changes from the previous version in section(s): 3.

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%

Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Asp. Tox. 1; H304	Calculation method
Muta. 1B; H340	Calculation method
Carc. 1B; H350	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H statements (full text)

H225	Highly flammable liquid and vapor
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

Other data

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