according to Regulation (EC) No 1907/2006

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

NG150

UFI:

1410-R0R5-S00E-E95Y

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Paints and varnishes

1.3. 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
1.4. Emergency telephone	+49-30-18412-0

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories: Flammable liquid: Flam. Liq. 2 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Germ cell mutagenicity: Muta. 2 Carcinogenicity: Carc. 1B Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. May cause drowsiness or dizziness.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

butanone; ethyl methyl ketone phenol; carbolic acid; monohydroxybenzene; phenylalcohol formaldehyde ... %

Signal word:

Danger

Pictograms:

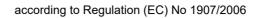


Hazard statements

H225 H315 Highly flammable liquid and vapour. Causes skin irritation.



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H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
Precautionary statemen	ts	
P201	Obtain special instructions before use.	
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/hearing protection.	
Special labelling of certa	ain mixtures	
EUH208	Contains formaldehyde %, di(benzothiazol-2-yl) disulphide. May produce an allergic reaction. Restricted to professional users.	
Labelling of packages w	where the contents do not exceed 125 ml	
Signal word:	Danger	
Pictograms:		
Hazard statements H341-H350		
Precautionary statemen P201-P280	ts	

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification		•	
78-93-3	butanone; ethyl methyl	ketone		60 - < 70 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2	, STOT SE 3; H225 H319 H336 EUF	1066	
108-95-2	phenol; carbolic acid; m	onohydroxybenzene; phenylalcohol		1 - < 2 %
	203-632-7	604-001-00-2		
	Muta. 2, Acute Tox. 3, A H301 H314 H373	Acute Tox. 3, Acute Tox. 3, Skin Corr.	1B, STOT RE 2; H341 H331 H311	
50-00-0	formaldehyde %			< 1 %
	200-001-8	605-001-00-5		
	Carc. 1B, Muta. 2, Acut H341 H331 H311 H301	e Tox. 3, Acute Tox. 3, Acute Tox. 3, H314 H317	Skin Corr. 1B, Skin Sens. 1; H350	
120-78-5	di(benzothiazol-2-yl) dis	< 1 %		
	204-424-9	613-135-00-0		
	Skin Sens. 1, Aquatic A	cute 1, Aquatic Chronic 1; H317 H40	00 H410 EUH031	

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I		
108-95-2	203-632-7	phenol; carbolic acid; monohydroxybenzene; phenylalcohol	1 - < 2 %
	300 mg/kg; oral	: = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = : ATE = 100 mg/kg Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < H319: >= 1 - < 3	
50-00-0	200-001-8	formaldehyde %	< 1 %
	300 mg/kg; oral	= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = : ATE = 100 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0,2 - 100 STOT SE 3; H335: >= 5	

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. If unconscious but breathing normally, place in recovery position and seek medical advice. First aider: Pay attention to self-protection!

After inhalation

When in doubt or if symptoms are observed, get medical advice.

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Dry extinguishing powder, Foam

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Highly flammable.

Vapours can form explosive mixtures with air.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

5.3. Advice for firefighters

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



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Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Do not allow to enter into surface water or drains. Treat the recovered material as prescribed in the section on waste disposal. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically, placing in appropriate containers for disposal. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Further information on handling

Wear personal protection equipment (refer to section 8). Do not empty into drains. When using do not eat, drink, smoke, sniff.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place. Do not allow to enter into surface water or drains. Do not allow uncontrolled discharge of product into the environment.

Hints on joint storage

TRGS 510

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

No information available.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
50-00-0	Formaldehyde	0.2	-		TWA (8 h)	
		0.4	-		STEL (15 min)	
78-93-3	Methyl ethyl ketone (MEK) (Butan-2-one)	200	600		TWA (8 h)	
		300	900		STEL (15 min)	
108-95-2	Phenol	2	8		TWA (8 h)	
		4	16		STEL (15 min)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	Butan-2-one	70 µmol/L	Urine	Post shift
108-95-2	Phenol	Phenol	120 mg/g	Creatinine	End of shift

Additional advice on limit values

No information available.

8.2. 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.

Thickness of the glove material: >= 0,7mm

Suitable gloves type NBR (Nitrile rubber)

Breakthrough time::>480 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

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	yellow	
Odour:	Ketone	
pH-Value:		not determined
Changes in the physical state		
Melting point:		not determined
Boiling point or initial boiling point and		80 °C
boiling range: Sublimation point:		not determined
•		not determined
Softening point: Pour point:		not determined
not determined:		not determined
Flash point:		9,7 °C
Sustaining combustion:		No data available
Flammability		
Solid/liquid:		not determined
Gas:		not determined
Explosive properties		
In use, may form flammable/explosive	vapour-air mixture.	
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		11,5 vol. %
Auto-ignition temperature:		475 °C
Self-ignition temperature		
Solid:		not determined
Gas:		not determined
Decomposition temperature:		not determined
Oxidizing properties not determined		
Vapour pressure: (at 20 °C)		101 hPa
Vapour pressure: (at 50 °C)		not determined



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Density (at 20 °C): Bulk density:	0,9 g/cm³ not determined
Water solubility:	not determined
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:	not determined
9.2. Other information	
Solid content:	2,61 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No information available.

Further information

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

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CAS No	Chemical name	Chemical name						
	Exposure route	Dose		Species	Source	Method		
108-95-2	phenol; carbolic acid; mo	phenol; carbolic acid; monohydroxybenzene; phe			•			
	oral	ATE mg/kg	100					
	dermal	ATE mg/kg	300					
	inhalation vapour	ATE	3 mg/l					
	inhalation aerosol	ATE	0,5 mg/l					
50-00-0	formaldehyde %							
	oral	ATE mg/kg	100					
	dermal	ATE mg/kg	300					
	inhalation vapour	ATE	3 mg/l					
	inhalation aerosol	ATE	0,5 mg/l					

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains formaldehyde ... %, di(benzothiazol-2-yl) disulphide. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (phenol; carbolic acid; monohydroxybenzene; phenylalcohol; formaldehyde ... %)

May cause cancer. (formaldehyde ... %)

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

STOT-single exposure

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No information available.

Additional information on tests

No information available.

Practical experience

No information available.

11.2. Information on other hazards

Other information

No information available.

Further information

No information available.

SECTION 12: Ecological information

12.1. Toxicity



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CAS No Chem	nical name						
Aquat	tic toxicity	Dose		[h] [d] Species	Sour	се	Method
108-95-2 pheno	ol; carbolic acid; m	onohydroxybe	enzene; pher	ylalcohol			
Acute	algae toxicity	ErC50	229 mg/l	72 h	GES	TIS	
2.2. Persistence a	nd degradability	1					
No information		_					
12.3. Bioaccumulat	ive potential						
No information	on available.						
Partition coefficien	t n-octanol/wate	er					
CAS No Ch	emical name						Log Pow
108-95-2 ph	enol; carbolic acid;	; monohydrox	ybenzene; pl	henylalcohol			1,5
12.4. Mobility in so	il						
No information							
12.5. Results of PB		essment					
No informatio							
12.7. Other adverse	effects						
No information							
SECTION 13: Dis		_					
DECTION 15. DIS	posal consider	ations					
		ations					
		ations					
	ent methods	ations					
13.1. Waste treatme Disposal recom	ent methods		legislation.				
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SECTION 15: Regulatory information		
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	SECTION 15. Regulatory information	

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3, Entry 72

according to Regulation (EC) No 1907/2006

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Revision date: 26.05.2021 Page 11 of 11 2010/75/EU (VOC): 2,49 % (22,41 g/l) 2004/42/EC (VOC): 77,68 % (699,12 g/l) Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS (SEVESO III): National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Water hazard class (D): 3 - highly hazardous to water 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 14.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Muta. 2; H341	Calculation method
Carc. 1B; H350	Calculation method
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
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.
EUH031	Contact with acids liberates toxic gas.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains formaldehyde %, di(benzothiazol-2-yl) disulphide. May produce an allergic reaction.

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

