

NG150

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## 1. Identification

### Product identifier

NG150

UFI: 1410-R0R5-S00E-E95Y

### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Paints and varnishes

### 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  
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 (narcotic effects)

### Label elements

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

**Signal word:** Danger**Pictograms:**

#### Hazard statements

Highly flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Suspected of causing genetic defects  
May cause cancer

#### 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

H341-H350

## Precautionary statements

P201-P280

Hazards not otherwise classified

No information available.

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

CAS No	Components	Quantity
78-93-3	butanone; ethyl methyl ketone	60 - < 70 %
108-95-2	phenol; carbolic acid; monohydroxybenzene; phenylalcohol	1 - < 2 %
50-00-0	formaldehyde ... %	< 1 %
120-78-5	di(benzothiazol-2-yl) disulphide	0.12 %

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	
108-95-2	203-632-7	phenol; carbolic acid; monohydroxybenzene; phenylalcohol	1 - < 2 %
		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 Skin Corr. 1B; H314: >= 3 - 100 Skin Irrit. 2; H315: >= 1 - < 3 Eye Irrit. 2; H319: >= 1 - < 3	
50-00-0	200-001-8	formaldehyde ... %	< 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 Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - < 25 Eye Irrit. 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0,2 - 100 STOT SE 3; H335: >= 5 - 100	

**Further Information**

No information available.

**4. First-aid measures**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.

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**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.

**Most important symptoms and effects, both acute and delayed**

No information available.

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

No information available.

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

Water spray jet, Dry extinguishing powder, Foam

**Unsuitable extinguishing media**

Full water jet

**Specific hazards arising from the chemical**

Highly flammable.

Vapors may form explosive mixtures with air.

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

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

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

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

**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. Provide adequate ventilation. Do not breathe gas/fume/vapor/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.

**Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow uncontrolled discharge of product into the environment.

**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).

**Reference to other sections**

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

**7. Handling and storage**

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**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.

**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.

**8. Exposure controls/personal protection**

**Control parameters**

**Exposure limits**

CAS No.	Substance	ppm	mg/m <sup>3</sup>	f/cc	Category	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)	200	590		TWA (8 h)	PEL
78-93-3	2-Butanone	200	590		TWA (8 h)	REL
		300	885		STEL (15 min)	REL
50-00-0	Formaldehyde	0.75	-		TWA (8 h)	PEL
		2	-		STEL (15 min)	PEL
50-00-0	Formaldehyde	0.016	-		TWA (8 h)	REL
		C 0.1	-		Ceiling	REL
108-95-2	Phenol	5	19		TWA (8 h)	PEL
		5	19		TWA (8 h)	REL
		C 15.6	C 60		Ceiling	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.

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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:  $>480\text{ min}$   
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 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:	yellow	
Odor:	Ketone	
pH-Value:		not determined

**Changes in the physical state**

Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		80 °C
Sublimation point:		not determined
Softening point:		not determined
Pour point:		not determined
not determined:		
Flash point:		9,7 °C
Sustaining combustion:		No data available

**Flammability**

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Solid/liquid: not determined  
Gas: not determined

**Explosive properties**

In use, may form flammable/explosive vapor-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

Vapor pressure: 101 hPa  
(at 20 °C)

Vapor pressure: not determined  
(at 50 °C)

Density (at 20 °C): 0,9 g/cm<sup>3</sup>

Bulk density: 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

**Other information**

Solid content: 2,61 %

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

No information available.

**Chemical stability**

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

**Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**Conditions to avoid**

No information available.

**Incompatible materials**

No information available.

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**Hazardous decomposition products**

No information available.

**Further information**

No information available.

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

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

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

Causes skin irritation

Causes serious eye irritation

**Sensitizing 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.

**Specific target organ toxicity (STOT) - single exposure**

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

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (OSHA): Formaldehyde (CAS 50-00-0) is listed.

Carcinogenicity (IARC): Phenol (CAS 108-95-2) is listed in group 3. Formaldehyde (CAS 50-00-0) is listed in group 1.

Carcinogenicity (NTP): Formaldehyde (CAS 50-00-0) is listed in group Known.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No information available.

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**Additional information on tests**

No information available.

**Practical experience**

No information available.

**Information on other hazards****Other information**

No information available.

**Further information**

No information available.

**12. Ecological information****Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

**13. Disposal considerations****Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

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

<b><u>UN/ID number:</u></b>	UN 1193
<b><u>Proper shipping name:</u></b>	Ethyl methyl ketone
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3

**Marine transport (IMDG)**

<b><u>UN number:</u></b>	UN 1193
<b><u>UN proper shipping name:</u></b>	ETHYL METHYL KETONE (METHYL ETHYLKETONE)
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



Special Provisions:	-
Limited quantity:	1 L



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Excepted quantity: E2  
EmS: F-E, S-D

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

**UN number:** UN 1193  
**UN proper shipping name:** ETHYL METHYL KETONE (METHYL ETHYLKETONE)  
**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: No

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

No transport as bulk according to IBC Code.

## 15. Regulatory information

### U.S. Regulations

#### National regulatory information

SARA Section 302 Extremely hazardous substances:

Phenol (108-95-2): Reportable quantity = 1,000 lbs., Threshold planning quantity = 500/10,000 lbs.

Formaldehyde (50-00-0): Reportable quantity = 100 lbs., Threshold planning quantity = 500 lbs.

SARA Section 304 CERCLA:

Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)

Phenol (108-95-2): Reportable quantity = 1,000 (454) lbs. (kg)

Formaldehyde (50-00-0): Reportable quantity = 100 (45.4) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard

Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) health hazard

Formaldehyde (50-00-0): Delayed (chronic) health hazard, Immediate (acute) health hazard

di(benzothiazol-2-yl) disulphide (120-78-5): Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Phenol (108-95-2): De minimis limit = 1.0 %, Reportable threshold = Standard

Formaldehyde (50-00-0): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(r):

Formaldehyde (50-00-0): Threshold quantities = 15,000 lbs.

Clean Air Act Section 112(b):

Methyl ethyl ketone (78-93-3), Phenol (108-95-2), Formaldehyde (50-00-0)

### 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 Formaldehyde (gas) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more

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information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).**16. Other information****Changes**

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Revision No: 1,5

This data sheet contains changes from the previous version in section(s): 3,8,15.

**Classification for mixtures and used evaluation method according to GHS**

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 statements (full text)**

H225	Highly flammable liquid and vapor
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.)*