



**INTROFIANT ARTERIAL**

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Provide good ventilation. Avoid inhalation of vapours.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

**STORAGE CLASS**

Toxic storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
FORMALDEHYDE ...%	WEL	2 ppm	2.5 mg/m3	2 ppm	2.5 mg/m3
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**



**ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**HAND PROTECTION**

Use protective gloves.

**EYE PROTECTION**

Use eye protection.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid	RELATIVE DENSITY	1.080-1.090 @ 20 °c
COLOUR	Dark Red	VOLATILE BY VOL. (%)	96
ODOUR	Pungent	FLASH POINT (°C)	55 CC (Closed cup).
SOLUBILITY	Soluble in water	FLAMMABILITY LIMIT - UPPER(%)	73
BOILING POINT (°C)	90-92 760 mm Hg		
VAPOUR DENSITY (air=1)	>1		
pH-VALUE, CONC. SOLUTION	8.0-9.0		
FLAMMABILITY LIMIT - LOWER(%)	7		

**10 STABILITY AND REACTIVITY**

**STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid contact with acids and alkalis. Avoid contact with strong oxidisers. Avoid contact with strong reducing agents.

**11 TOXICOLOGICAL INFORMATION**

**INHALATION**

Toxic by inhalation. Prolonged inhalation of high concentrations may damage respiratory system. May cause irritation to the respiratory system. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

## INTROFIANT ARTERIAL

### INGESTION

Toxic if swallowed. Causes burns. May cause discomfort if swallowed. May cause stomach pain or vomiting. Swallowing concentrated chemical may cause severe internal injury.

### SKIN CONTACT

Toxic in contact with skin. Causes burns. May cause sensitisation by skin contact. Prolonged contact may cause dryness of the skin.

### EYE CONTACT

Irritating to eyes. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

### HEALTH WARNINGS

Prolonged inhalation of high concentrations may damage respiratory system. Prolonged or repeated exposure may cause severe irritation.

The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.

### Other Health Effects

Carcinogen Category 3.

### MEDICAL CONSIDERATIONS

Allergies. Skin disorders and allergies. History of smoking.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Not known.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION



UK ROAD CLASS	3		
PROPER SHIPPING NAME	FORMALDEHYDE SOLUTION, FLAMMABLE		
UN NO. ROAD	1198	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	HAZARD No. (ADR)	38
ADR LABEL NO.	3 & 8	HAZCHEM CODE	2YE
CEFIC TEC(R) NO.	30GFC-III	RID CLASS NO.	3
RID PACK GROUP	III	UN NO. SEA	1198
IMDG CLASS	3	IMDG PAGE NO.	3 & 8
IMDG PACK GR.	III	EMS	F-E, S-C
MFAG	See Guide	MARINE POLLUTANT	No.
UN NO. AIR	1198	AIR CLASS	3
AIR SUB CLASS	8	AIR PACK GR.	III

## 15 REGULATORY INFORMATION

### LABELLING



Toxic



Corrosive

CONTAINS FORMALDEHYDE 27.755%  
METHANOL

**INTROFIANT ARTERIAL**

## RISK PHRASES

R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R10	Flammable.
R34	Causes burns.

## SAFETY PHRASES

S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S1/2	Keep locked up and out of the reach of children.
S29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of .. (to be specified by the manufacturer)
S60	This material and its container must be disposed of as hazardous waste.
P11	Restricted to professional users.

## ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

## EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

## STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

## APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply.

## GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

**16 OTHER INFORMATION**

## INFORMATION SOURCES

Dangerous Properties of Industrial Materials Report, N.Sax et.al.

## REVISION DATE

May 2007

## RISK PHRASES IN FULL

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.

## DISCLAIMER

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