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# ReAgent

## SAFETY DATA SHEET FORMALDEHYDE 37% TECHNICAL

According to Regulation (EC) No 1907/2006

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                      FORMALDEHYDE 37% TECHNICAL

SUPPLIER                              Reagent Chemical Services  
18 Aston Fields Road  
Whitehouse Industrial Estate  
Runcorn  
Cheshire WA7 3DL  
T: 01928 716903  
F: 01928 716425  
E: [info@reagent.co.uk](mailto:info@reagent.co.uk)

PRODUCT NO.                        2592

APPLICATION                        General chemical reagent

EMERGENCY TELEPHONE            Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Toxic by inhalation, in contact with skin and if swallowed. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION (1999/45)            T;R23/24/25, R39/23/24/25. Carc. Cat. 3;R40. C;R34. Xi;R37. R43.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
FORMALDEHYDE ...%	200-001-8	50-00-0	30-60%	Carc. Cat. 3;R40 T;R23/24/25 C;R34 R43
METHANOL	200-659-6	67-56-1	10-30%	F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

#### INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. In case of severe exposure or if any discomfort continues get medical attention.

#### INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

#### SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Unless contact has been slight and no discomfort is felt, obtain medical attention.

#### EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention immediately.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide or dry powder.

**FORMALDEHYDE 37% TECHNICAL****SPECIAL FIRE FIGHTING PROCEDURES**

Vapour/air mixture explosive

**SPECIFIC HAZARDS**

When heated and in case of fire, toxic vapours/gases may be formed.

**PROTECTIVE MEASURES IN FIRE**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

**SPILL CLEAN UP METHODS**

Remove sources of ignition. Small Spillages: Absorb with sand or other inert absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. The waste may be neutralised by the addition of sodium hydrogen sulphite. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Ventilate well. Wash thoroughly after dealing with a spillage.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes.

**STORAGE PRECAUTIONS**

Store in closed original container at temperatures between 15°C and 25°C. Ensure adequate ventilation. Store away from direct sunlight and moisture

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
FORMALDEHYDE ...%	WEL	2 ppm	2.5 mg/m <sup>3</sup>	2 ppm	2.5 mg/m <sup>3</sup>	
METHANOL	WEL	200 ppm(Sk)	266 mg/m <sup>3</sup> (Sk)	250 ppm(Sk)	333 mg/m <sup>3</sup> (Sk)	

WEL = Workplace Exposure Limit.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit (WEL) is not exceeded. Explosion-proof general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection if vapours or mists are generated. Chemical respirator with organic vapour cartridge. Consult with the supplier as to the compatibility of the equipment with the chemical of concern.

**HAND PROTECTION**

Use full length gloves. Butyl rubber. Nitrile. Viton rubber (fluor rubber). Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

**HYGIENE MEASURES**

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Pungent		
SOLUBILITY	Miscible with water		
BOILING POINT (°C)	96	RELATIVE DENSITY	1.08
pH-VALUE, CONC. SOLUTION	2.8 - 4.0	FLASH POINT (°C)	62

## FORMALDEHYDE 37% TECHNICAL

AUTO IGNITION About 300 FLAMMABILITY LIMIT - LOWER(%) 7  
 TEMPERATURE (°C)  
 FLAMMABILITY LIMIT - UPPER(%) 73

### 10 STABILITY AND REACTIVITY

**STABILITY**

The substance is hygroscopic and will absorb water by contact with the moisture in the air. Tends to polymerize.

**MATERIALS TO AVOID**

Nitric acid. Acids. Strong oxidising substances. Organic nitro compounds. Nitrogen oxides.

### 11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 100 mg/kg (oral rat)

**INHALATION**

Toxic by inhalation. May cause oedemas in the respiratory tract.

**INGESTION**

May cause severe internal injury. Irritation of the mouth, the oesophagus and the gastrointestinal tract. There is a risk of perforation of the oesophagus and stomach.

**SKIN CONTACT**

Causes burns. May cause sensitisation by skin contact. May be absorbed through the skin.

**EYE CONTACT**

Causes burns.

**HEALTH WARNINGS**

Found to cause cancer in laboratory animals. Carcinogen category 3. Absorption of large quantities may cause irreversible damage to the optic nerve (due to methanol), nausea, headache, vomiting, inebriation and blindness.

**OTHER HEALTH EFFECTS**

IARC Int. Agency for Cancer Research. Formaldehyde classified as carcinogenic in humans.

### 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

Toxic to aquatic organisms. Do not allow to enter drinking water, waste water or soil.

LC 50, 96 Hrs, FISH mg/l 24 (P.promelas)(formaldehyde)

EC 50, 48 Hrs, DAPHNIA, mg/l 2 (Daphnia magna)(formaldehyde)

**BIOACCUMULATION**

Low bioaccumulation potential.

**DEGRADABILITY**

Good biodegradability

### 13 DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS**

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

### 14 TRANSPORT INFORMATION



UK ROAD CLASS	8		
PROPER SHIPPING NAME	FORMALDEHYDE SOLUTION		
UN NO. ROAD	2209	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	ADR LABEL NO.	8
HAZCHEM CODE	ZZ	CEFIC TEC(R) NO.	80GC9-II+III
RID CLASS NO.	8	RID PACK GROUP	III
UN NO. SEA	2209	IMDG CLASS	8

## FORMALDEHYDE 37% TECHNICAL

IMDG PAGE NO.	8	IMDG PACK GR.	III
EMS	F-A, S-B	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	2209
AIR CLASS	8	AIR PACK GR.	III

### 15 REGULATORY INFORMATION

**LABELLING**



Toxic



Corrosive

**CONTAINS** FORMALDEHYDE 35%  
METHANOL

**RISK PHRASES**

- R34 Causes burns.
- 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.
- R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**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).
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S60 This material and its container must be disposed of as hazardous waste.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**NATIONAL REGULATIONS**

Control of Substances Hazardous to Health Regulations 2002 (as amended)

### 16 OTHER INFORMATION

**GENERAL INFORMATION**

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

**REVISION COMMENTS**

This is first issue.

REVISION DATE 17/07/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 10117

**SAFETY DATA SHEET STATUS**

Approved.

## FORMALDEHYDE 37% TECHNICAL

### RISK PHRASES IN FULL

R34	Causes burns.
R11	Highly flammable.
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.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.