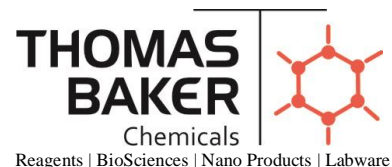


# SAFETY DATA SHEET

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Tel: + 91 251 2610140 / 2610394 / 2610829 / 2606947  
Email: info@thomasbaker.com | sales@thomasbaker.com  
GST No. 27AAACT4221B1ZY | CIN No. U24114MH1980PTC023396  
Revision Date 01.06.2022



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

### 1.1 Product identifiers

Product name : **Acetaldehyde solution abt. 20-30%**  
Article No. : 0137  
Brand : Thomas Baker  
CAS Number : 75-07-0

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company Name: Thomas Baker (Chemicals) Pvt. Ltd.  
B3 & B4, MIDC, Chemical Zone, Ambarnath 421501. Dist: Thane, India.

### 1.4 Emergency telephone

Emergency Phone # : +91 9307304329

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1B), H350

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram



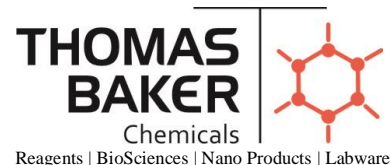
Signal Word	Danger
Hazard statement(s)	
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.



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## Precautionary statement(s)

P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and Other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
Supplemental Hazard information (EU)  
EUH019 May form explosive peroxides.  
Restricted to professional users.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, Bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at Levels of 0.1% or higher.  
Photosensitizer.  
May form explosive peroxides

## LABEL PRECAUTIONARY STATEMENTS

Extremely Flammable, Harmful, Irritant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS # : 75-07-0  
MF. : C<sub>2</sub>H<sub>4</sub>O  
EC No. : 200-836-8  
M.W. : 44.05 g/mol

## SYNONYMS

Acetaldehyde, Aldehyde acetique, Ethanol.

## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek  
Medical advice (show the label where possible).  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a  
POISON  
CENTER/doctor if you feel unwell.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and  
water,  
Followed by warm water rinse.



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First-aid measures after eye contact present : Rinse cautiously with water for several minutes. Remove contact lenses, if present

And easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention..

## 4.2. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable liquid and vapour.

Explosion hazard : Heating may cause a fire or explosion.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when Fighting any chemical fire. Prevent firefighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory Protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. Use special care to avoid static electric charges. No open Flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow water (or moist air) contact with this material.

### 6.3. Methods and material for containment and cleaning up

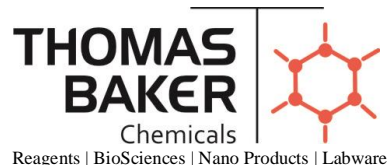
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as Possible. Collect spillage. Store away from other materials.



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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Additional hazards when processed: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Avoid contact with skin and eyes.  
Provide good ventilation in process area to prevent Formation of vapour. Keep away from sources of ignition  
- No smoking. Do not breathe vapours.  
Use only outdoors or in a well-ventilated area.

Hygiene measures: Do not eat, drink or smoke when using this product.  
Wash hands and other exposed Areas with mild soap and water before eating,  
Drinking or smoking and when leave Work.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep in fireproof place. Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).



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## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

Boiling Pt. /Range	: 21 deg	Physical State	: Liquid
Appearance	: Clear yellowish To colourless liquid	M.Pt./freezing pt.	: -125°C
Vapour Pressure @20°C	: 756.4 mm Hg	Odour	: Strong Pungent
Vapour Density (Air = 1)	: 1.52 g/l	Solubility in water @30°C	: Soluble
Evaporation rate	: ---	Specific Gravity (Water =1)	: 0.785
PH	: ---	Others	: ---
Coeff of water/oil distribution	: ---		

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Extremely flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Heat. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

No additional information available



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## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Acute toxicity : Not classified  
Skin corrosion/irritation : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitization : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Germ cell mutagenicity : Not classified  
Based on available data, the respiratory irritation.  
STOT-repeated exposure : Not classified  
Classification criteria are not met  
Carcinogenicity : Suspected of causing cancer.  
Additional information : Based on available data, the classification criteria are not met  
Reproductive toxicity : Not classified  
Additional information : Based on available data, the classification criteria are not met  
STOT-single exposure : May cause  
Additional information : Based on available data, the classification criteria are not met  
Aspiration hazard : Not classified  
Additional information : Based on available data, the classification criteria are not met  
Potential adverse human health effects  
And symptoms : Based on available data, the classification criteria are not met.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

#### **Mixture**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

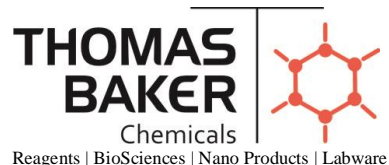
### **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at Levels of 0.1% or higher.



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## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

#### **Product/Packaging disposal**

Recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment.

SECTION 14 : Transport information

## **SECTION 14: TRANSPORT INFORMATION**

In accordance with ADR / RID / IMDG / IATA / AND

### **14.1. UN number**

UN-No. (ADR) : 1089

UN-No. (IMDG) : 1089

UN-No. (IATA) : 1089

UN-No. (ADN) : 1089

UN-No. (RID) : 1089

### **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : ACETALDEHYDE

Proper Shipping Name (IMDG) : ACETALDEHYDE

Proper Shipping Name (IATA) : Acetaldehyde

Proper Shipping Name (ADN) : ACETALDEHYDE

Proper Shipping Name (RID) : ACETALDEHYDE

Transport document description (ADR) : UN 1089 ACETALDEHYDE, 3, I, (D/E)

Transport document description (IMDG) : UN 1089 ACETALDEHYDE, 3, I (-27°C c.c.)

Transport document description (IATA) : UN 1089 Acetaldehyde, 3, I

Transport document description (ADN) : UN 1089 ACETALDEHYDE, 3, I

Transport document description (RID) : UN 1089 ACETALDEHYDE, 3, I

### **14.3. Packing group**

Packing group (ADR) : I

Packing group (IMDG) : I

Packing group (IATA) : I

Packing group (ADN) : I

Packing group (RID) : I

### **14.4. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available



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## **SECTION 15: REGULATORY INFORMATION**

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

#### **15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### **.1.2. National regulations**

##### **Germany**

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV  
(Hazardous Incident Ordinance)

##### **Netherlands**

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de  
voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de  
voortplanting giftige stoffen –  
Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de  
voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

##### **Denmark**

Classification remarks : Emergency management guidelines for  
The storage of flammable liquids must be

Followed  
Recommendations Danish Regulation : Young people below the age of 18 years  
Are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct  
Contact with the product

The requirements from the Danish Working Environment Authorities regarding work  
With carcinogens must be followed during use and disposal



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## SECTION 16: OTHER INFORMATION

### Full text of H- and EUH-statements:

Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.

FOR THOMAS BAKER (CHEMICALS) PVT. LTD.



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