

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MIDC CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



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

### **1.1 Product identifiers**

Product name : Aqua-Nil<sup>□</sup> 2 ( Pyridine free karlfisher reagent )  
Article No. : 97518.  
Brand : Thomas Baker

### **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, Ambernath 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  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 3), H331  
Acute toxicity, Dermal (Category 4), H312  
Skin corrosion (Sub-category 1B), H314  
Serious eye damage (Category 1), H318  
Reproductive toxicity (Category 1B), H360FD  
Specific target organ toxicity - single exposure (Category 1), Immune system, H370  
Specific target organ toxicity - repeated exposure, Oral (Category 1), Thyroid, H372  
Specific target organ toxicity - repeated exposure (Category 2), thymus, H373

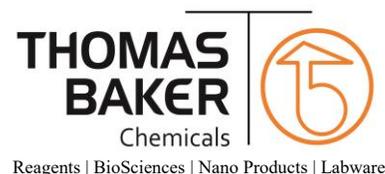
### **2.2 Other hazards**

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.



# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 003  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



## LABEL PRECAUTIONARY STATEMENTS

Harmful, toxic, Flammable

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

2-Methoxy ethanol-Approx.30.8 % w/v

Imidazole – Approx 6.4 % w/v

Iodine-Approx 7.4 % w/v

Sulphurdioxide-Approx 4.8 % w/v

## ADDITIONAL INFORMATION

Aqua-Nil  2

## SYNONYMS

Karl Fisher reagent

## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of first-aid measures

#### General advice

Consult a physician. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician..

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

No data available

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 003  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



---

## **SECTION 5: FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Suitable extinguishing media  
Dry powder Dry sand  
Unsuitable extinguishing media  
Do NOT use water jet.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides, Hydrogen iodide  
Combustible.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

Use water spray to cool unopened containers

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### **6.2 Environmental precautions**

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

### **6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite)

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



---

## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes.

Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of Electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are Opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

## **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.

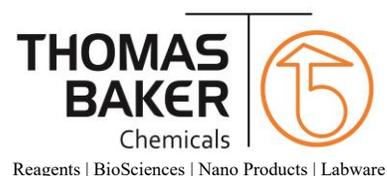
##### **Respiratory protection**

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).



# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 003  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



## 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	: 124deg	Physical State	: Liquid
Appearance	: A clear ,reddish brown liquid		
Freezing.Pt.	: -----		
Vapour Pressure @20°C	: -----	Odour	: -----
Vapour Density (Air = 1)	: -----	Solubility in water @30°C	: Soluble
Evaporation rate	: ----	Specific Gravity(Water =1)	: 1.07
PH	: ----	Other	: -----
Coeff of water/oil distribution	: ---		

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen iodide

Other decomposition products - No data available

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 003  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AAACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



---

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory or skin sensitization**

No data available

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Pyridine)

Reproductive toxicity

No data available

#### **Specific target organ toxicity - single exposure**

No data available

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available

#### **Additional Information**

RTECS: Not available

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 003  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AAACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

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, Bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at Levels of 0.1% or higher.

### 12.6 Other adverse effects

Toxic to aquatic life

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### Contaminated packaging

Dispose of as unused product.

# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



## **SECTION 14: TRANSPORT INFORMATION**

### **14.1 UN number**

ADR/RID: 1993 IMDG: 1993 IATA: 1993

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

ADR/RID: FLAMMABLE LIQUID, N.O.S. (2-Methoxyethanol, Pyridine)

IMDG: FLAMMABLE LIQUID, N.O.S. (Pyridine, 2-Methoxyethanol)

IATA: Flammable liquid, n.o.s. (Pyridine, 2-Methoxyethanol)

### **14.3 Transport hazard class (es)**

ADR/RID: 3 IMDG: 3 IATA: 3

### **14.4 Packaging group: III**

ADR/RID: III IMDG: III IATA

### **14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

### **14.6 Special precautions for user**

No data available.

## **SECTION 15: REGULATORY INFORMATION**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).

: 2-Methoxyethanol

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

:

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

: 2-Methoxyethanol



# SAFETY DATA SHEET

PREPARED BY: SAFETY COMMITTEE, THOMAS BAKER (CHEMICALS) PVT. LTD.  
FACTORY: B3 AND B4 MID CHEMICAL ZONE, AMBERNATH WEST,  
THANE, MAHARASHTRA, 421501 (INDIA). TEL: + 91 9307304329 | 9223070 00 3  
EMAIL: info@thomasbaker.com | sales@thomasbaker.com  
GST NO.: 27AACT4221B1ZY | CIN NO.: U24114MH1980PTC023396  
Revision Date 01.06.2023



## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H302 + H312	Harmful if swallowed or in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H360FD	May damage fertility. May damage the unborn child.
H370	Causes damage to organs.

FOR THOMAS BAKER (CHEMICALS) PVT. LTD.



AUTHORISED SIGNATORY.

Information contained in this "Safety Data Sheet" is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer / seller/ user to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. We make no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.