

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.: 27AAACT4221B1ZY | CIN NO.: U24114MH1980PTC023396
Revision Date 01.06.2025



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

1.1 Product identifiers

Product name : Aqua-Nil 5 (Pyridine free Karl Fischer reagent)

Article No. : 97526

Brand : Thomas Baker

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

Identified uses : Reagent for Analysis

1.3 Details of the supplier of the safety data sheet

Company : Thomas Baker (Chemicals) Pvt. Ltd.

B3 & B4, MIDC, Chemical Zone, Ambernath 421501. Dist: Thane

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

LABEL PRECAUTIONARY STATEMENTS

Harmful, toxic, Flammable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Component	Classification	Concentration
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2-Methoxyethanol

Component	Classification	Concentration
2-Methoxyethanol		
CAS-No. 109-86-4 EC-No. 203-713-7	Flam. Liq. 3; Acute Tox. 4; Repr. IB; STOT SE 1; STOT RE 2; H226, H302, H332, H312, H360FD, H370, H373	$\geq 50 - < 70 \%$
Pyridine		
CAS-No. 110-86-1 EC-No. 203-809-9	Flam. Liq. 2; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H225, H302, H332, H312, H315, H319	$\geq 20 - < 30 \%$
Iodine		
CAS-No. 7553-56-2 EC-No. 231-442-4	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; STOT RE 1; Aquatic Acute 1; H332, H312, H315, H319, H335, H372, H400 M-Factor - Aquatic Acute: 1	$\geq 10 - < 20 \%$
Sulphur dioxide		
CAS-No. 7446-09-5 EC-No. 231-195-2	Press. Gas ; Acute Tox. 3; Skin Corr. IB; , H331, H314	$\geq 5 - < 10 \%$

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.

If swallowed

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



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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

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_x), 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)



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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

7.2 Conditions for safe storage, including any incompatibilities

electrostatic charge.

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).

Control of environmental exposure



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

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



An ISO 9001:2015 Certified Company
Certificate No. 43391/22/S

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10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO_x), Sulfur oxides, Hydrogen iodide Other decomposition products - No data available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity

Skin corrosion/irritation No data available

Serious eye damage

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

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in soil

No data available



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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

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 1993 IMDG: 1993 IATA: 1993

14.2 UN proper shipping name

ADIURID: 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

ADiURID: III IMDG: III IATA: III

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



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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

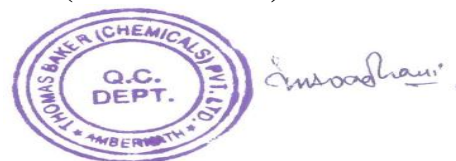
15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

N.A

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 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.

