Basekim
Chemical Production Co.Ltd

SAFETY DATA SHEET

VINYL ACETATE MONOMER (VAM)

SDS / MSDS Summary | Prepared for industrial manufacturing, storage, handling, and transport reference

1. IDENTIFICATION

Product identifier	Vinyl Acetate Monomer (VAM)
Chemical name	Vinyl acetate
CAS number	108-05-4
Recommended use	Industrial manufacturing
Restrictions on use	For professional use only
Manufacturer / Distributor	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
Address	ILKBAHAR MAH. FAHREDDIN PASA SK. NO: 6 CANKAYA/ANKARA
Company phone	+903125147055
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2. HAZARD(S) IDENTIFICATION

Classification	Flammable liquid, Category 2; Acute toxicity inhalation, Category 4; Skin irritation, Category 2; Eye irritation, Category 2A; Specific target organ toxicity - single exposure, Category 3; Carcinogenicity, Category 2.
Signal word	DANGER
GHS pictograms	Flame; Exclamation Mark; Health Hazard
Hazard statements	H225 Highly flammable liquid and vapor. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H351 Suspected of causing cancer.
Precautionary summary	Keep away from heat, sparks, open flames, and hot surfaces. Use explosion-proof equipment, ground and bond containers, avoid breathing vapor, use only with adequate ventilation, and wear protective gloves, eye protection, and flame-resistant protective clothing.

Signal Word: DANGER

Primary hazards: highly flammable vapor, inhalation toxicity, eye/skin irritation, respiratory irritation, and suspected carcinogenicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	EC No.	Concentration
Vinyl acetate monomer	108-05-4	203-545-4	>= 99% typical commercial grade

Stabilizer/inhibitor may be present in commercial material to prevent polymerization. Exact grade specifications should be confirmed by the supplier certificate of analysis.

4. FIRST-AID MEASURES

Eye contact	Immediately rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and obtain medical attention.
Skin contact	Remove contaminated clothing. Wash affected skin with soap and water. Seek medical advice if irritation persists. Launder contaminated clothing before reuse.
Inhalation	Move person to fresh air and keep comfortable for breathing. If breathing is difficult, provide oxygen by trained personnel. Obtain medical attention immediately if symptoms occur.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
Symptoms/effects	May cause eye and skin irritation, headache, dizziness, coughing, respiratory tract irritation, nausea, and central nervous system effects. Delayed effects are possible after significant exposure.
Treatment	Treat symptomatically and supportively. Show this SDS summary to medical personnel.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Alcohol-resistant foam, dry chemical powder, carbon dioxide, or water spray/fog. Do not use direct high-pressure water jet.
Specific hazards	Vapors may form explosive mixtures with air and may travel to ignition sources. Containers may rupture when heated. Fire may produce carbon monoxide, carbon dioxide, irritating vapors, and decomposition products.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

- Evacuate non-essential personnel and eliminate all ignition sources immediately.
- Use intrinsically safe tools, explosion-proof equipment, and appropriate respiratory protection where vapor exposure may occur.
- Stop leak if safe to do so. Prevent entry into drains, waterways, basements, or confined areas.
- Contain spill with inert absorbent material such as sand, earth, or vermiculite. Collect in suitable closed containers for disposal.
- Ventilate area thoroughly and verify vapor concentration before re-entry.

7. HANDLING AND STORAGE

Safe handling	Use only in well-ventilated areas. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Ground and bond all transfer equipment. Use non-sparking tools and explosion-proof electrical systems.
Storage conditions	Store in a cool, dry, well-ventilated area away from heat, sparks, flames, oxidizers,

	acids, bases, and polymerization initiators. Keep container tightly closed and protected from direct sunlight.
Incompatibilities	Strong oxidizing agents, acids, bases, peroxides, polymerization catalysts, and sources of ignition.
Polymerization control	Material may polymerize if inhibitor is depleted or if exposed to heat/contamination. Maintain recommended storage conditions and inventory rotation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Parameter	Limit / Recommendation
OSHA PEL	10 ppm TWA (approx. 30 mg/m3)
ACGIH TLV	10 ppm TWA; 15 ppm STEL
Engineering controls	Use closed systems, local exhaust ventilation, vapor monitoring, and explosion-proof ventilation systems.
Eye/face protection	Chemical splash goggles and face shield where splashing is possible.
Skin protection	Chemical-resistant gloves, antistatic protective clothing, and safety footwear.
Respiratory protection	Use approved organic vapor respirator or supplied-air respirator where ventilation is insufficient or exposure limits may be exceeded.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colorless liquid
Odor	Sweet, ester-like odor
Molecular formula	C4H6O2
Molecular weight	86.09 g/mol
pH	Not applicable
Melting/freezing point	Approx. -93 °C
Boiling point	Approx. 72-73 °C
Flash point	Approx. -8 °C closed cup
Evaporation rate	High relative to water
Flammability	Highly flammable liquid and vapor
Lower / upper explosive limits	Approx. 2.6% / 13.4% by volume in air
Vapor pressure	Approx. 90 mmHg at 20 °C
Relative vapor density	Approx. 3.0 (air = 1)
Density	Approx. 0.93 g/cm3 at 20 °C
Solubility	Moderately soluble in water; miscible with many organic solvents
Auto-ignition temperature	Approx. 427 °C

10. STABILITY AND REACTIVITY

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Reactivity	Flammable liquid; vapors may form explosive mixtures with air.
Chemical stability	Stable under recommended storage conditions when properly inhibited.
Hazardous reactions	Polymerization may occur when heated, contaminated, or uninhibited.
Conditions to avoid	Heat, sparks, open flame, static discharge, direct sunlight, confined vapor accumulation, and inhibitor depletion.
Incompatible materials	Strong oxidizers, acids, bases, peroxides, and polymerization initiators.
Hazardous decomposition products	Carbon monoxide, carbon dioxide, acetic acid vapors, and irritating decomposition products.

11. TOXICOLOGICAL INFORMATION

Routes of exposure	Inhalation, skin contact, eye contact, and ingestion.
Acute toxicity	Harmful if inhaled. High vapor concentrations may cause headache, dizziness, respiratory irritation, and central nervous system depression.
Skin/eye effects	Causes skin irritation and serious eye irritation. Repeated contact may defat skin and cause dermatitis.
Respiratory effects	May cause respiratory tract irritation, coughing, and discomfort.
Chronic effects	Suspected of causing cancer based on classification data. Repeated or prolonged exposure should be controlled strictly.
Numerical data	Published values vary by source and test method; consult the full supplier SDS for exact toxicological endpoints for the delivered grade.

12. ECOLOGICAL INFORMATION

- Avoid release to the environment, drains, soil, and surface waters.
- Material is expected to volatilize and may be harmful to aquatic organisms depending on concentration and exposure duration.
- Biodegradation and environmental fate data should be confirmed from the full supplier SDS for the specific grade.
- Large spills may create oxygen demand and acute toxicity risk in receiving waters.

13. DISPOSAL CONSIDERATIONS

Dispose of product, contaminated absorbents, and packaging through licensed waste contractors in accordance with local, national, and international regulations. Do not discharge to drains or waterways. Empty containers may retain flammable vapor and must be handled as hazardous until cleaned or professionally reconditioned.

14. TRANSPORT INFORMATION

Item	Transport classification
UN number	UN 1301

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Proper shipping name	Vinyl acetate, stabilized
Hazard class	3 - Flammable liquid
Packing group	II
Marine pollutant	Not typically regulated as marine pollutant; verify by shipment jurisdiction and grade.
Special precautions	Keep away from heat and ignition sources. Transport in approved, closed, properly grounded containers. Ensure inhibitor status is maintained.

15. REGULATORY INFORMATION

This SDS summary is prepared for industrial B2B communication and should be used together with the manufacturer or supplier full SDS, certificate of analysis, and applicable local regulations. Classification and labeling may vary by jurisdiction, concentration, stabilizer content, and regulatory framework. Users are responsible for compliance with OSHA HCS, GHS, transport regulations, workplace exposure rules, and local environmental requirements.

16. OTHER INFORMATION

Preparation / revision date	14 May 2026
Prepared for	BASEKIM KIMYASAL URUNLER IC VE DIS TICARET LIMITED SIRKETI
Document type	Safety Data Sheet summary for professional industrial reference
Disclaimer	The information is provided in good faith as a concise SDS summary and does not replace the official supplier SDS for the delivered product grade. Users must evaluate suitability, regulatory compliance, workplace controls, and emergency procedures for their own operations.