Safety Data Sheet

GBF Number	GBF-23
Prepare Date	01.03.2022
Revision Date	23.01.2025
Revision	1

likitkimya

VAM (Vinyl Acetate Monomer)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product Name VİNYL ACETATE MONOMER

CAS-Number 108-05-4

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

Identified uses Process Chemical

1.3 Details of the supplier of the safety data sheet

Company Likit Kimya Sanayi Ticaret A.Ş.

Terminal Address Terminal Adres: Sultanköy Merkez Mah.İncirli Mandıra Cad.No:64 Marmaraereğlisi/TEKİRDAĞ

Terminal Telephone 0 282 613 41 38

Central Office Address Küçükbakkalköy Mah. Nar Tanesi Sok. TLS PLAZA Blok No: 16/A Ataşehir /İstanbul / TÜRKİYE

Central Office Telephone 0 216 499 30 00 (pbx)

E-mail info@likitkimya.com

ismail_kucukbingol@likitkimya.com

ibrahim_caginda@likitkimya.com

Web s www.likitkimya.com

1.4 Hazards identification

Emergency Phone : 112

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

2.2 Label elements

Pictogram

Signal word Danger

Hazard statements

H225 Highly Flammable liquids and vapour.

H332 Harmful if inhaled.

H319 Causes Serious Eye Irritation.

H317 Causes Allergic Skin Irritation.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause bodily harm through prolonged or repeated exposure.

Precautionary statements
P201 Read special instructions before use
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.
P233 Keep container tightly closed.
P240 Ground/bond the container and receiving equipment.
P241 Use explosion-proof electrical/ventilation/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautions against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapor/spray.
P261 Avoid breathing dust/fume/gas/mist/vapor/spray.
P264 Wash handling area thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed outside the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
302+P352 IF IN CONTACT WITH SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower.P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position easy for breathing.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P321 Special procedures such as washing with water, preventing spread to skin.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire: Use alcohol foam, carbon dioxide or water spray to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Calm down.
P501 Dispose of contents/container in accordance with relevant legislation.

2.3 Other Hazards

Health 2
Flammability 3
Reactivity 2

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3. Composition/information on ingredients

3.1 Component

Hazardous material according to Regulation (EC) No 1272/2008

CAS-No. : 108-05-4

EC-No. : 203-545-4

İndeks No. : 607-023-00-0

component		Classification	Concentration
Vinyl Acetate Monomer			
		Flame. Liquid 2; Acute Tok. 4; Skin Has. 1; Eye Taht. 2; Carcinogenicity 2; Specific Target Organ toxicity (Single exposure 3) (Repeat 2)	C ≥ %99,9

4. First aid measures

4.1 Description of first aid measures

General Recommendation

Consult the doctor. Show this safety data sheet when you consult your doctor.

If inhaled

In case of inhalation, remove victim to fresh air. Use artificial respiration and air device if necessary**.**

In contact with skin

Take off contaminated clothing and shoes immediately. Wash with soap and plenty of water. **Consult** the doctor.

In case of eye contact

After eye contact: wash with plenty of water. Call an eye specialist. Remove contact lenses

If swallowed

Get medical advice and recommendations.

4.2 Most important symptoms and effects, both acute and delayed

Known symptoms and effects are stated on the label (see section 2.2 and/or section 11).

Indication of any immediate medical attention and special treatment needed

If you are exposed, take immediate action, such as contacting a medical team and conducting follow-up.

studies.

Ensure medical personnel are aware of the relevant material(s) and take precautions to protect themselves.

5.1 Yangınla mücadele önlemleri

fire extinguishers

Suitable fire extinguishers

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Use alcohol foam, carbon dioxide or water spray when fighting fires involving this material.
Special hazards arising from the substance or mixture
Highly flammable liquids, vapors
It may polymerize violently and cause fire and explosion.
Vapors may travel to an ignition source and flashback.
During combustion, pungent and toxic gas may be formed as a result of thermal decomposition and combustion.
May form explosive mixtures at temperatures at or above its flash point.
Containers may explode when heated.
Easily flammable: Can be easily ignited by heat, sparks or flame.
Flow may create a fire or explosion hazard.
Danger of steam explosion indoors, outdoors or in sewers.
Some can burn but do not ignite easily.
Vapors may form explosive mixtures with air.
It is not flammable, the substance itself does not burn, but when heated it can decompose to form corrosive and/or corrosive substances.
toxic fumes.

Advice for firefighting crews

Rescuers must use appropriate protective equipment.
Evacuate the area and fight the fire from a safe distance.
Warnings; Most liquids are lighter than water.
Most vapors are heavier than air. They will spread along the ground and in low or closed areas (sewers, basements, tanks).
Fire related to tanks: Fight fire from maximum distance or use unmanned hose holders or monitoring nozzles.
Fire Related to Tanks: Cool containers with plenty of water until fire is out.
Fire in Tanks: If sound increases from ventilation safety devices or the color of the tanks changes, withdraw immediately.
Fire related to tanks: ALWAYS stay away from tanks exposed to fire.
Tank-Related Fire: For large fires, use unmanned hose grabs or monitoring nozzles; If this is impossible, retreat from the area and let the fire burn.

6. Precautions against accidental release

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapor/spray.
Very fine particles can cause fire or explosion and eliminate all sources of ignition.
Clean up spills immediately, following precautions in the Protective Equipment section.
Remove all sources of ignition.
All equipment used when transporting the product must be grounded.
Stop the leak if you can do it without risk.
Do not handle damaged containers or spilled material unless you are wearing appropriate protective clothing.
A vapor suppressing foam can be used to reduce vapors.

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Cover with plastic wrap to prevent spreading.

Please note that there are materials and conditions that should be avoided.

6.2 Environmental precautions

Prevent flow into drain, drain, basement and closed door

6.3 Methods and materials for cleaning and non-dispersion

Dam and collect water used in firefighting.

Absorb the spill with an inert material (e.g. dry sand or soil) and then place in a chemical waste container.

Reduce airborne dust and prevent scattering by moistening with water.

Absorb with liquid, wash spilled area with detergent and water.

When there is significant leakage, dig a trench away from the liquid leakage

Use clean, explosion-proof tools to collect the absorbed material.

References to other sections

For waste disposal, see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Do not handle unless all safety precautions are read and understood.

Use explosion-proof electrical/ventilation/lighting equipment.

Use only non-sparking tools.

Take precautions against static discharge.

Avoid breathing dust/fume/gas/mist/vapor/spray.

Wash the handling area thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothes should not be allowed to leave the workplace.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or static electricity.

Follow all MSDS/label precautions even after the container has been emptied as they may retain product residues.

Be careful during handling/storage.

Carefully loosen the closure before opening.

Avoid prolonged or repeated contact with your skin.

All equipment used when transporting the product must be grounded.

Please note that there are materials and conditions that should be avoided.

Caution: Heat

Measure the atmospheric oxygen concentration during operation and ventilate the area as it is a low confined space. It can cause lack of oxygen.

Conditions for safe storage, including any incompatibilities

Keep away from heat/sparks/open flames/hot surfaces. - No Smoking.

Keep container tightly closed.

Store in a well-ventilated place.

Empty drums must be completely emptied, properly corked and returned immediately to the drum regeneration facility or properly disposed of.

Specific end uses

No use other than that described in Section 1.2 is intended.

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8. Exposure controls / personal protection

8.1 Control parameters

8.2 Components with workplace control parameters

component	CAS No	Value Exposure Mode	Control parameters	Fundamentals
VİNYL ACETATE MOMOMER (VAM)	108-05-4	TWA	10 ppm	About Health and Safety Precautions in Working with Chemical Substances - ANNEX-I: Occupational exposure limit values
		ACGIH (STELL)	15 ppm	About Health and Safety Precautions in Working with Chemical Substances - ANNEX-I: Occupational exposure limit values

8.3 Exposure controls

Use full-face or hood/helmet type pressurized air-supplied respirator with appropriate filter or box-mounted

when the exposure concentration is less than 10000 ppm.

Use canister-mounted Self-contained Breathing Apparatus (SCBA) with appropriate filter or SCBA with required pressure

Respiratory protection when exposure concentration is less than 100000 ppm.

Use approved respiratory protection,

For gas/liquid exposed according to physico-chemical properties

Use appropriate filtered or canister-mounted half-face respiratory protection when exposure concentrations are below 100 ppm.

Loose-fitting electric hood/helmet respiratory protection with appropriate filter or box-mounted or flow dust mask when sustained exposure concentration is less than 250 ppm

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance Physical state

Color Liquid

Colorless

b) Odor Pungent Smell

c) Odor Threshold No data available.

d) pH No data available.

e) Melting point/Freezing point Melting point/melting range: -93.0 °C

f) Initial boiling point and boiling range 72 oC

g) Flash point -8° C (CLOSED CUP)

h) Evaporation point No data available.

i) Flammability temperature (solid, gas) No data available.

j) Upper/lower flammability or explosion limits 13.4 %, 2.6

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k) Vapor pressure 11.7 kPa (20.0 oC)
l) Vapor density 3
m) Relative density 0.90 g/cm³ 20° C
n) Solubilities 2.5 g/100 ml at 20 °C - Soluble in Ethane, Ether, Acetone, Benzene, Chloroform, Organic solvent.
o) Partition coefficient (n-octanol/water) 0.73
p) Auto-ignition temperature 402 ° C
q) Decomposition temperature No data available.
r) Viscosity 0.43 cP (20°C)
s) Explosive properties No data available.
t) Oxidizing properties No data available.

9.2 Other safety information

Self-Accelerating Polymerization Temperature (SAPT): >65 °C
No spontaneous heating was observed as a result of the seven-day 65°C test.

10. Stability and reactivity

10.1 Reaction

Highly flammable liquids, vapors
It may polymerize violently and cause fire and explosion.
May form explosive mixtures at temperatures at or above its flash point.
Containers may explode when heated.
HIGHLY FLAMMABLE: Can be easily ignited by heat, sparks or flame.
Flow may create a fire or explosion hazard.
Danger of steam explosion indoors, outdoors or in sewers.
Vapors may form explosive mixtures with air.
Vapors may travel to the source of ignition and flashback.
It may cause toxic effects if inhaled or absorbed through the skin.
It is stable under normal temperature and pressure. Containers may explode when heated.

10.2 Conditions to avoid

Heating, open flame and sparks.

10.3 Substances to avoid

There is no data available.

10.4 Hazardous decomposition products

During a fire, irritating and highly toxic gases may be produced due to thermal decomposition or combustion.

11. Toxicological information

11.1 Information on toxic effects

Acute Toxicity

LD50 Oral - Rat - 2500 mg/kg

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LC50 Inhalation - Rat – 11.4 mg/l (4 hours)

LD50 Dermal - Rabbit - 2.335 mg/kg

Skin corrosion/irritation

Skin - Rabbit Results: irritating

Serious eye damage/irritation

Eyes - Rabbit Consequences: Eye irritation

Respiratory or skin sensitivity

-Mouse Results: positive

Carcinogenicity

Ministry of Labor and Employment Communiqué 2

IARC Group 2B

OSHA Available

ACGIH A3

NTP No data

EU CLP 2

Having a sterilizing effect

Negative in germ cell micronucleus test, positive in somatic cell micronucleus test, positive in somatic cell

chromosomal aberration test

Specific Target Organ Toxicity – Single exposure

If inhaled - May cause respiratory irritation.

Specific Target Organ Toxicity – Repeated exposure

Upper respiratory tract inflammation has been observed in humans. Pneumonia and rhinitis, post nasal epidermal

Basal cell atrophy, mucous gland atrophy, epidermal growth and atrophy of the epidermis after the nasal passage, hyperplasia were observed in test animals.

Aspiration toxicity

There is no data available.

12. Ecological information

12.1 Toxicity

aquatic toxicity

Fish LC50 2.39 mg/ℓ 96 hours

Crustaceans No data

Aquatic algae EC50 9.5 mg/ℓ 48 hours

Persistence and Degradability

Permanence low kow 0.73

Recyclability data not available.

12.2 Bioaccumulation potential

There is no data available.

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Biodegradability 90%

12.3 Mobility in soil

There is no data available.

12.4 Other adverse effects

There is no data available.

13. Disposal information

13.1 Waste treatment methods

Product

Disposal methods Dispose of contents and container in accordance with waste control legislation.

Precautions (including disposal) dirty container of the package

Dispose of contents and container in accordance with applicable laws and regulations.

14. Transport information

14.1 UN number

ADR/RID: 1301	IMDG: 1301	IATA: 1301

14.2 UN proper shipping name

ADR/RID	Vinyl Acetate
IMDG	VINYL ACETATE
IATA	Vinyl Acetate

14.3 Transport hazard classes

ADR/RID: 3	IMDG: 3	IATA: 3

14.4 Packaging group

ADR/RID: II	IMDG: II	IATA: II

14.5 Environmental damages

ADR/RID: No	IMDG: It is not a marine pollutant.	IATA: No

14.6 Special precautions for the user

No data available

15. Regulatory information

15.1 This substance safety data sheet complies with the requirements of EU Regulation No 1907/2006. National laws: This safety data sheet has been prepared in accordance with the Regulation on Classification, Labeling and Packaging of Substances and Mixtures (O.G. 11.12.2013-28848) and the Regulation on Safety Data Sheets Concerning Harmful Substances and Mixtures (O.G. 13.12.2014-29204).

15.2 Chemical Safety Assessment

No data available

15.3 Chemical Safety Assessment

A chemical safety assessment has not been conducted for this product.

16. Other Information

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

H225 Highly Flammable liquids and vapour.

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H332 Harmful if inhaled.
H319 Causes Serious Eye Irritation.
H317 Causes Allergic Skin Irritation.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause bodily harm through prolonged or repeated exposure.

Additional Information

 Although the above information is believed to be accurate, it is not claimed to be all-inclusive and should be used as a guide only. The information provided in this document is given based on our current knowledge and records, and this information can be used for the relevant product provided that necessary and appropriate precautions are taken. The information provided here cannot be interpreted as providing any warranty regarding the features of the relevant product. Likit Kimya Ticaret ve Anonim Şirketi cannot be held responsible for any damage or loss that may arise from transportation, processing or contact with the relevant product.

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