

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Vinyl acetate

Registration number : 01-2119471301-50-0009

Use of the Substance/ Mixture : Raw material for industry

Company : Nevinnomyssky Azot OJCS
1 Nizyaeva str., Nevinnomysk-7, Stavropol Territory, 357107, Russia

Telephone : + 7 (86554) 4-42-65

E-mail address : nevinazot@eurochem.ru.

Emergency telephone : Poisons Control and Information Office:
+370 52 362052; mob.: +370 687 53378; opening hours:
24 hours (GMT+3)

2. HAZARDS IDENTIFICATION

According to REGULATION (EC) No 1272/2008

Pictogram(s):



Signal Word: Danger.

Classification:

Hazard Class and Category Code(s):

Flammable liquids, Category 2
Acute toxicity, Category 4 (inhalation)
Carcinogenicity, Category 2
Specific target organ toxicity - single exposure, Category 3

Hazard Statement(s):

H225: Highly flammable liquid and vapour.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.
H335: May cause respiratory irritation.

According to Directive 67/548/EEC (1999/45/EC)

Symbol(s):

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN



Indication(s) of danger:

F Highly flammable.
Xn Harmful.

R-phrases(s):

R12 Highly flammable.
R20 Harmful by inhalation.
R37 Irritating to respiratory system.
R40 Limited evidence of a carcinogenic effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product is a chemical substance within the meaning of the REACH Regulation (1907/2006/EC). The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	EC-No / Registration number	Index-No
Vinyl acetate	≤100	108-05-4	203-545-4 / 01-2119471301-50-0009	607-023-00-0

4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Move out of dangerous area. Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes immediately.

Inhalation : If breathed in, move person into fresh air. Keep patient warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Skin contact : In case of contact, immediately flush skin with soap and plenty of water. Consult a physician.

Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet.
- Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary. Use personal protective equipment.
- Further information : Standard procedure for chemical fires. Use spray water to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Ensure adequate ventilation, especially in confined areas. Immediately evacuate personnel to safe areas.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.
- Methods for cleaning up : Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Advice on safe handling : For personal protection see section 8. Avoid exposure - obtain special instructions before use. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Prevent the creation of flammable or explosive concentrations of vapour in air. Take precautionary measures against static discharges. Use appropriate container to avoid environmental contamination. Do not carry cloths that have come into contact with the product in your clothing. Handle with care.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Store in cool place. Keep in steel or aluminium containers. Keep tightly closed in a dry and well-ventilating place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in steel or aluminium containers (tanks).

Advice on common storage : Keep away from food, drink and animal feeding stuffs. Incompatible with acids and bases. Do not store with oxidizing agents, combustible substances and materials.

Storage period : 3 months.

Storage temperature : $\leq 40\text{ }^{\circ}\text{C}$

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No	Control parameters	Basis	Update
Vinyl acetate	108-05-4	TWA: 17,6 mg/m ³ , 5 ppm STEL: 35,2 mg/m ³ , 10 ppm	2009/161/EU	2009-12-17

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.

Personal protective equipment

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination type AXBEK (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.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Hand protection

Material : Butyl-rubber.

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles. Face shield.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection Flame retardant antistatic protective clothing.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
General industrial hygiene practice.
Avoid breathing vapors, mist or gas.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Follow the skin protection plan.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid
Colour : colourless
Odour : whiff

Safety data

Melting point/range : - 93,2 °C
Boiling point/boiling range : 72,7 °C at 101,3 kPa
Flash point : - 8 °C
Method: closed cup
Self-ignition temperature : 402 °C
Lower explosion limit : 2,6 % (vol.)
Upper explosion limit : 13,4 % (vol.)
Density : 1,513 g/cm³ at 20 °C
Viscosity : 0,42 mPa at 20 °C
Water solubility : 0,2 g/cl at 20 °C
Miscibility with water (15 °C) : At any ratio (> 90%)

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Partition coefficient:
n-octanol/water : 0,73 at 20 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks. Exposure to light or other polymerization initiators.

Materials to avoid : Oxidizing agents, combustible substances and materials, acids and bases.

Hazardous decomposition products : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature:
Carbon oxides.

Stability : Possible risk of polymerization by light or other initiators. The product is stabilized with hydroquinone.
No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

Vinyl acetate : LD₅₀ (rat): 3.500 mg/kg

Acute inhalation toxicity:

Vinyl acetate : LC₅₀ (rat): 15.810 mg/m³
Exposure time: 4 h

Acute dermal toxicity:

Vinyl acetate : LD₅₀ (rabbit): 7.440 mg/kg

Skin irritation : Non-irritating.

Eye irritation : Non-irritating.

Skin sensitization : Non-sensitizing.

Respiratory sensitization : Non-sensitizing.

Repeated dose toxicity: inhalation (sub-acute / sub-chronic)

Vinyl acetate : NOAEC (sub-acute; mouse): 176 mg/m³
Exposure time: 4 weeks (6 hrs/day; 5 days/week)

Vinyl acetate : NOAEC (sub-chronic; mouse): 176 mg/m³
Exposure time: 3 months (6 hrs/day; 5 days/week)

Repeated dose toxicity: oral (sub-acute / sub-chronic)

Vinyl acetate : NOAEL (sub-chronic; mouse): 281 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Exposure time: 3 months (7 days/week)

CMR effects

Mutagenicity : No mutagenic effect.
Carcinogenicity : No carcinogenic effect.
Toxicity for reproduction : No reproductive effect.

Further information : May cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Toxicity to daphnia and other aquatic invertebrates:

Vinyl acetate : EC₅₀ (Daphnia Magna): 12,6 mg/l
Exposure time: 48 h

Toxicity aquatic plants:

Vinyl acetate : EC₅₀ (Pseudokirchnerella subcapitata): 12,7 mg/l
Exposure time: 72 h

Long-term study fish/ daphnia and other aquatic invertebrates/ aquatic plants:

Vinyl acetate : NOEC (Pimephales promelas): 0,16 mg/l
Exposure time: 34 days
Vinyl acetate : NOEC (Pseudokirchnerella subcapitata): 5,96 mg/l
Exposure time: 3 days

Bio concentration factor

Vinyl acetate : BCF: 3,16

Elimination information (persistence and degradability)

Biodegradability : Readily biodegradable.

Further information on ecology

Adsorbed organic bound halogens (AOX) : Not included.

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

13. DISPOSAL CONSIDERATIONS

Advice on disposal and packaging : Disposal:
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste.
Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

ADR

UN-Number : 1301
Description of the goods : VINYL ACETATE, STABILIZED
Class : 3
Packing group : II
Classification Code : F1
Hazard identification No : 339
Labels : 3
Limited quantity : LQ4
Tunnel restriction code : D/E
Environmentally hazardous : no

RID

UN-Number : 1301
Description of the goods : VINYL ACETATE, STABILIZED
Class : 3
Packing group : II
Classification Code : F1
Hazard identification No : 339
Labels : 3
Limited quantity : LQ4
Environmentally hazardous : no

IATA

UN-Number : 1301
Description of the goods : Vinyl acetate, stabilized
Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo aircraft) : 307
Environmentally hazardous : no
Packing instruction (passenger aircraft) : 305
Packing instruction (LQ) : Y305

IMDG

UN-Number : 1301
Description of the goods : VINYL ACETATE, STABILIZED
Class : 3
Packing group : II

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Labels : 3
EmSNumber 1 : F-E
EmS Number 2 : S-D
Marine pollutant : no

15. REGULATORY INFORMATION

Labelling REGULATION (EC) No 1272/2008

Symbol(s) :



Signal word : Danger.

Hazard statements : H225: Highly flammable liquid and vapour.
H332: Harmful if inhaled.
H351: Suspected of causing cancer.
H335: May cause respiratory irritation.

Precautionary statements : **Prevention:**
P201: Obtain special instructions before use.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241: Use explosion-proof electrical/ventilating/lighting/... / equipment.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P280: Wear protective gloves/protective clothing/eye protection

Response:

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P370+378 In case of fire: Use ... for extinction

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Labelling according to EC Directives

67/548/EEC

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006

Vinyl acetate

Revision Date 28.11.2010

Version 1.1

GB / EN

Symbol(s)	: F Xn	Highly flammable. Harmful.
R-phrase(s)	: R12 R20 R37 R40	Highly flammable. Harmful by inhalation. Irritating to respiratory system. Limited evidence of a carcinogenic effect.
S-phrase(s)	: S2 S16 S23 S36/37	Keep out of the reach of children. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). Wear suitable protective clothing and gloves.

Hazardous components which must be listed on the label:

Special labelling of certain mixtures : Restricted to professional users.

Seveso Directive (96/82/EC)	:		Quantity 1	Quantity 2
		Highly flammable	5.000	50.000

National legislation

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work.
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R12	Highly flammable.
R20	Harmful by inhalation.
R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.