

1.1

SAFETY DATA SHEET

Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

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

Household Vinegar 14%
not applicable
2020.11.18

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

Identified use:

It can be used to remove limescale from a variety of surfaces and appliances. It quickly and effectively removes stubborn deposits remaining from soap, limescale, or leaks. It may also be used to create natural cleaning mixtures using the recipes included in the packaging of NEFY NATURAL products and on the website www.nefy.com.pl. Adds shine. Easy to rinse, leaving surfaces glossy and free of smudges.

Use advised against: Other than those mentioned above, consumption.

1.3 Details of the supplier of the safety data sheet

Distributor: Dragon Poland Spółka z ograniczoną odpowiedzialnością Sp. k. ul. Rtm. W. Pileckiego 5, 32-050 Skawina,

> tel.: +48 12 625 75 00; +48 12 623 80 80; fax: +48 12 637 79 30 www.dragon.com.pl e-mail: info@dragon.com.pl

E-mail address of the person responsible for the safety data sheet: <u>technologia2@dragon.com.pl</u>

1.4 Emergency telephone number

- 112 (available 24 hours a day, 7 days a week),
- +48 12 625 75 00 (available from Monday to Friday, at 8 am 4 pm)

2 SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazards deriving from physico-chemical properties: Not classified.

<u>Health hazards</u>: **Skin Irrit. 2** - Skin corrosion/irritation, hazard category 2 **H315** - Causes skin irritation. **Eye Irrit. 2** – Serious eye damage/eye irritation, category 2 **H319** – Causes serious eye irritation

Environmental hazards:

Not classified.





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

2.2.Label elements



Hazard phrases:

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

Safety phrases:

P102 - Keep out of reach of children.

P260 - Do not breathe dust/fume/gas/mist/vapours/ spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of contents/container to companies with the necessary permission in accordance with national regulations.

2.3 Other hazards

None of the substances in the mixture satisfies the PBT or vPvB requirements according to the appendix XIII to regulation (WE) no. 1907/2006.

3 SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Name:Acetic acidIndex number:-CAS number:64-19-7EC number:200-580-7Concentration:10-25 [mass percentage]Registration number:-

Hazards resulting from physicochemical properties: Flam. Liq. 3 – Flammable Liquid, category 3 H226 – Flammable Liquid and vapour

Hazards to human: **Skin Corr. 1A** - Skin Corrosion ,category 1A **H314** - Causes severe skin burns and eye damage

Environmental hazards: Not classified





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

First aid measures 4 SECTION 4:

4.1. Description of first aid measures

Respiratory: In case of discomfort move the victim from the area of exposure. Keep at rest. If symptoms persist or discomfort occurs, get medical attention.

Skin contact: In case of contact with skin, wash immediately with soap and water. Consult a physician in case of persistent skin irritation.

Eye contact: Immediately flush eyes with plenty of water. Remove contact lenses (if any) and continue to rinse for up to 15 minutes, keeping the eyelids wide open and moving the eye backwards and forwards. Consult a physician if irritation occurs and persists. NOTE: Avoid strong water jet as it may damage the corneal.

Ingestion: Consult a physician. Rinse mouth with water, give 2-3 glasses of water to drink. In case of natural reflex vomiting, keep the victim leaning forward.

- 4.2. Most important symptoms and effects, both acute and delayed Contact with skin and eyes may causes irritation.
- 4.3. Indication of any immediate medical attention and special treatment needed Show the safety data sheet, label or container to the medical personnel providing aid.

5. SECTION 5: **Firefighting measures**

5.1 Extinguishing media

The product is non-combustible. Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture Unknown risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Do not allow extinguish water to enter the sewage system and ground water. Follow the standard procedures for extinguishing chemical fires. People involved in fire fighting should be trained, equipped with protective clothing and breathing apparatus with an independent air supply.

6. SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures 6.1.

Inform the neighbourhood about the emergency. Keep all persons not involved in the emergency action away from the hazardous area. If necessary, order the evacuation. Call Fire Service, rescue crews and State Police. The rescue operation may be held only by trained, equipped teams with proper clothing and protective equipment. Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Prevent entry into drains, waters or soil. In case of release of large quantities of the product, inform appropriate OSH, rescue and environmental protection crews and administrative bodies.





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

6.3. Methods and material for containment and cleaning up

Cover spills with non-combustible absorbent material (e.g., earth, sand, vermiculite) and remove into closed waste containers. Transfer the picked up product and other contaminated materials to appropriate receptacles or containers for recovery or safe disposal.

6.4. Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

General ventilation and/or local extraction systems are recommended

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed and adequately labelled containers or tanks intended for the product in a warehouse adapted to contain caustic liquids. The storage surface should be non-absorbent. Ensure proper ventilation.

7.3. Specific end use(s)

See section 1.2.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetic acid: NDS: 15 mg/m³ NDSCh: 30 mg/m³

• Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (EC 2000, No. 39, as amended).

Information on procedures to monitor airborne concentrations of hazardous ingredients:

- PN-ISO 4225:1999 Air quality. General aspects. Vocabulary;
- PN-EN 689+AC:2019-06 Exposure at work stations Measurements of inhalation exposure to chemical agents Strategy for testing compliance with limit values.

If the concentrations of individual substances in the workplace are established and known, the selection of personal protective equipment should be made taking into account their concentration, exposure time and activities performed by the employee. In an emergency situation, when concentrations of substances in the workplace are not known, personal protection equipment with the highest recommended protection class should be used.

The employer is obliged to ensure that the personal protective equipment used as well as clothing and protective clothing have protective and functional properties and ensure their proper washing, maintenance, repair and disinfection.





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

8.2. Exposure controls

The personal protective equipment should meet the requirements of:

• Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Proper control measures:

It is recommended that general ventilation and /or local exhaust be used to keep harmful agent concentrations below applicable maximum exposure limits. Local exhaust ventilation systems are the preferred method because they allow for controlling emissions at source and preventing contaminants from spreading throughout the work area.

Individual protection measures: Eyes or face protection: Tightly fitting safety goggles.

Skin protection:

Protective gloves. Featured with approval to EN 374> 480 min. In order to keep risk to a minimum it is recommended that personnel wear protective clothing, anti-slip work shoes.

- EN ISO 374-1:2017 Protective gloves against dangerous chemicals and micro-organisms Part 1: Terminology and performance requirements;
- EN 16523-1+A1:2018-11 Determination of material resistance to permeation by chemicals Part 1: Permeation of potentially hazardous liquid chemical substances under continuous contact conditions.

Respiratory protection:

Under normal conditions, with sufficient ventilation, they are not required; when exposed to concentrations of vapors exceeding the permissible values, use an approved respirator with filter.

• PN-EN 14387+A1:2010 Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking.

Environmental exposure controls:

Prevent the substance from entering soil, sewerage systems and water courses.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

A) Appearance liauid B) Odour colorless to slightly yellow Odour threshold sour, irritant C) D) рΗ strongly acidic E) Melting point/freezing point not specified F) Initial boiling point and boiling range not specified G) Flash point not applicable H) Evaporation rate not applicable not applicable 1) Flammability (solid, gas)





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

J)	Upper/lower flammability or explosive limits	not specified
K)	Vapour pressure	not applicable
L)	Vapour density	not specified
M)	Relative density	15% - 1,02 g/cm ³
N)	Solubility(ies)	fully soluble / miscible in water
O)	Partition coefficient: n-octanol/water	not applicable
P)	Auto-ignition temperature	not specified
Q)	Decomposition temperature	not specified
R)	Viscosity	not specified
S)	Explosive properties	not specified
T)	Oxidizing properties	not specified

9.2. Other information

No data available.

10. SECTION 10: Stability and reactivity

10.1. Reactivity

React with bases.

10.2. Chemical stability

No hazardous reactions will occur if the product is stored and used as prescribed.

10.3. Possibility of hazardous reactions

May cause corrosion of metals. Reacts with bases.

10.4. Conditions to avoid

No hazardous reactions will occur if the product is stored and used as prescribed.

10.5. Incompatible materials

Metals

10.6. Hazardous decomposition products

Irritating gases / vapors.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazard classes for which information is provided include:

A) acute toxicity;

Acetic acid:	
LD50 (oral, rat)	3310 mg/kg
LD50 (skin, rabbit)	1060 mg/kg
LD50 (inhalation, rat, 4h)	11,4 mg/l





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

- B) skin corrosion/irritation; Causes skin irritation.
- C) serious eye damage/irritation; Causes serious eye irritation.
- D) respiratory or skin sensitisation;Based on available data, the classification criteria are not met.
- E) germ cell mutagenicity;Based on available data, the classification criteria are not met.
- F) carcinogenicity;Based on available data, the classification criteria are not met.
- G) reproductive toxicity;Based on available data, the classification criteria are not met.
- H) STOT single exposure;Based on available data, the classification criteria are not met.
- I) STOT- repeated exposure;
 Based on available data, the classification criteria are not met.
- J) aspiration hazard;Based on available data, the classification criteria are not met.

12. SECTION 12: Ecological information

12.1. Toxicity

<u>Acetic acid:</u> ED50 (toxicity, Daphnia magna, 48h) LD50 (fish, 96h)

>300,82 mg/l > 300,82 mg/l

12.2. Persistence and degradability

Biodegradable. Degradation rate in water: K_{sw} =0,047 d⁻¹. Degradation rate in soil: K_{soil} =0,023 d⁻¹. Degradation rate in air K_{air} =0,6x10⁻¹² cm³ molec⁻¹s⁻¹. Degradation rate in sediment: K_{sed} =0,023 d⁻¹.

12.3. Bioaccumulative potential

The predicted BCF of acetic acid is 3.16, based on a logK (o/w) of -0.17.

12.4. Mobility in soil

K(o/c)=1,153 la temp 20°C

12.5. Results of PBT and vPvB assessment

None of the substances of the mixture meets the criteria for PBT or vPvB according to Annex XIII.

12.6. Other adverse effects

Not identified

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code: 16 03 05* - organic wastes containing hazardous substances





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

Waste code: 07 07 01 - aqueous washing liquids and mother liquors

Do not allow surface and ground water to be contaminated. Do not store on municipal landfills. Consider the possibility of use. Recycling or neutralizing waste product should be carried out in accordance with applicable regulations. Recommended method of disposal: incineration.

Recommended method of disposal: D10. Incineration on land.

<u>Waste code: 15 01 10*</u> packaging containing residues of or contaminated by hazardous substances. The recovery or disposal of packaging waste shall be carried out in accordance with applicable regulations. Reusable packaging, after cleaning, should be re-used. Disposal of packaging waste should be carried out in professionally authorized incinerators or waste treatment/disposal facilities.

Recommended method of disposal: D10. Incineration on land.

- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (Text with EEA relevance)
- COMMISSION DECISION of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council.

14. SECTION 14: Transport information

The mixture is subject to the regulations on the carriage of dangerous goods contained in ADR (road transport), RID (rail transport), IMDG (maritime transport), ICAO/IATA (air transport).

14.1. UN number

UN 2790

14.2. UN proper shipping name

ACETIC ACID SOLUTION

14.3. Transport hazard class(es)

8 (C3)

14.4. Packing group

Ш

14.5. Environmental hazards

Not applicable

14.6. Special precautions for users

Warning: Caustic materials. Hazard identification number (Kemler code): 80 No. EMS: F-A, S-B

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable





Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

15. SECTION 15: Regulatory information

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

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrigendum OJ L 133 of 29 May 2007, as amended).
- Commission Regulation (EU) No. 2015/830 of 28 May 2015, amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 132 of 29 May 2015).
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ L 353 of 31 December 2008, as amended).
- Regulations Concerning the International Transport of Dangerous Goods by Rail (RID) (Journal of Laws of 2009, No. 167, Item. 1318, as amended).
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) (Appendix to the Journal of Laws of 2009, No. 27, Item. 162).

15.2. Chemical safety assessment

The manufacturer has not carried out a chemical safety assessment for the mixture.

16 SECTION 16: Other information

This safety data sheet was prepared on the basis of information contained in safety data sheets provided by the manufacturers of substances and the currently applicable regulations.

The classification of the mixture has been made on the basis of calculations.

Other data sources:

IUCLID Data Bank (European Commision – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Revision date	Revision scope	Version
2020.11.18	Date of issue.	1.0 (SDS/NNOCG/EN/2020.11.18)

The information contained in the safety data sheet is intended to describe the product only in terms of safety requirements. The user is liable for providing conditions for safe use of the product and takes responsibility for the consequences resulting from improper use of the product.

The information contained in this safety data sheet applies only to the title product and may not be valid or sufficient for the product used in combination with other materials or different applications.

The user of the product is obliged to observe all applicable standards and regulations, as well as take responsibility arising from the misuse of the information contained in the safety data sheet or improper application of the product.

Explanation of abbreviations and acronyms used in the safety data sheet:







Household Vingar 14%

Material safety data sheet according to Regulation (EC) No 1907/2006, as amended

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday

vPvB - Very persistent and very bioaccumulative (substance)

PBT – Persistent, bioaccumulative and toxic (substance)

PNEC – Predictable No-Effect Concentration

DNEL – Derived No-Effect Level

BCF – Bioconcentration factor

 $\mathsf{LD50}-\mathsf{Lethal}$ dosage at which the death of 50% of the tested animals is observed

LC50 – Lethal concentration at which the death of 50% of the tested animals is observed

 $\mathsf{EC}_X-\mathsf{Concentration}$ associated with X% growth rate response

IC50 - Inhibitory concentration at which 50% inhibition of the tested parameter is observed

RID - Regulation concerning international carriage of dangerous goods by rail

ADR – European agreement concerning the international carriage of dangerous goods by road

IMDG – International Maritime Dangerous Goods Code

IATA – International Air Transport Association

OECD - Organisation for Economic Cooperation and Development

Trainings:

Concerning handling, health and safety at work with hazardous substances and mixtures.

--- The end of the safety data sheet. ---

