

SAFETY DATA SHEET

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Material safety data sheet according to Regulation (EC) No 1907/2006, as amended
Identifier:DOOC/K2514/W2402/2023-02-06/EN/v.1.0

Strong White Vinegar 18%

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

1.1. Product identifier

Name:	Strong White Vinegar 18%
Other names:	not applicable
Contains:	not applicable
UFI code:	FDY0-H011-900J-7P3G
CAS No .:	not applicable
EC number:	not applicable
Index number:	not applicable
Registration No .:	not applicable
Date of issue:	2023-02-06
Revision date:	2023-02-06
Version:	1.0

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

Identified uses: Intended for descaling various surfaces and household appliances. Removes stubborn sediments, i.e. soap, stone and water stains. Also used to prepare mixtures of natural cleaning agents.

Uses advised against: All other than mentioned above, consumption.

1.3. Details of the supplier of the safety data sheet

Supplier
CURUST INDUSTRIES LTD.
135 Unit 7, Bromley Business Park, Farankelly Rd., Greystones, Co.
Wicklow.
 (01) 2760800
www.curust.ie e-mail: info@curust.ie

1.4. Emergency telephone number

Phone number: (01) 8092166

2. SECTION 2: Hazards identification

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2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008 (CLP)

Hazards resulting from the physicochemical properties:

Not classified.

Hazards to humans:

Skin Irrit. 2 Skin Irritation 2

H315 Causes skin irritation.

Eye Irrit. 2 Eye irritation, category 2

H319 Causes serious eye irritation.

Environmental hazards:

Not classified.

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 (CLP)

Pictogram



GHS07

Signal word

WARNING

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Supplemental label elements:

Not applicable.

Phrases specifying the conditions of safe use:

P102 Keep out of reach of children.

P260 Do not breathe dust/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/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. None of the substances mentioned in this Safety Data Sheet was included in the list established in accordance with Article 59 for having endocrine disrupting properties, and none of the substances in this mixture is a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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3. SECTION 3: Composition/information on ingredients

3.1. Substances

This is a mixture- not applicable. See details in section 3.2.

3.2. Mixtures

Name of substance: Acetic acid				
Index number:	CAS No .:	EC number:	Registration No .:	Concentration [% w/w]:
607-002-00-6	64-19-7	200-580-7	01-2119475328-30-XXXX	15-20
Hazards resulting from the physicochemical properties:	Flam. Liq. 3 Flammable liquids, category 3 H226 Flammable liquid and vapour.			
Hazards to humans:	Skin Corr. 1A Skin corrosion, category 1A H314 Causes severe skin burns and eye damage.			
Environmental hazards:	Not classified.			
Specific concentration limits:	Skin Irrit. 2; H315: 10 % ≤ C < 25 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Corr. 1A; H314: C ≥ 90 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %			
M-Factors:	Not applicable.			
ATE:	LC50 (inhalation, rat, 4h)		11,4 mg/L	
	LD50 (oral, rat)		3310 mg/kg	
	LD50 (skin, rabbit)		1060 mg/kg	
Particle characteristics for substances in nanoform:	Not applicable.			

4. SECTION 4: First aid measures

4.1. Description of first aid measures

Airways:	If symptoms of inhalation exposure occur (coughing, dyspnoea), move the victim to fresh air. In the case of persistent discomfort or malaise, obtain medical assistance.
Skin contact:	Consult a doctor if irritation symptoms appear and persist. Wash contaminated skin thoroughly with water and soap or mild detergent, then rinse with plenty of water. Remove contaminated/soaked clothing and shoes immediately.
Contact with eyes:	Immediately flush contaminated eyes with a continuous stream of water, remove contact lenses (if present) and continue rinsing for approx. 15 minutes. CAUTION: Avoid strong water jet as it may damage the corneal. When rinsing, keep the eyelids wide open and move the eyeball. If irritation symptoms occur and persist, consult a physician.
Digestive tract:	In event of consumption of the product, rinse the mouth and take the injured person into fresh air, keep calm and warm.

4.2. Most important symptoms and effects, both acute and delayed

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Contact with skin may cause: reddening, irritation. Eye contact may cause: tearing, reddening.

4.3. Indication of any immediate medical attention and special treatment needed

Directions for the doctor: symptomatic treatment. Unconscious person do not give anything by mouth or induce vomiting. Medical personnel show the safety data sheet, label or packaging to the person giving the aid.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Product is not flammable. Use extinguishing media appropriate to the burning surroundings.

Inappropriate extinguishing media: Water jets.

5.2. Special hazards arising from the substance or mixture

Product is non-flammable.

5.3. Advice for firefighters

Persons involved in the fire fighting actions should be properly trained, equipped with a self-contained breathing apparatus, and should wear full protective gear. The resulting fire waste and residues should be disposed of in accordance with applicable regulations. Do not allow the fire water to reach the sewage system and water reservoirs. Follow the procedures for extinguishing chemical fires.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not allow product to reach water systems, sewage, manholes and soil.

6.2. Environmental precautions

Do not allow product to reach water systems, sewage, manholes and soil.

6.3. Methods and material for containment and cleaning up

If it is possible and safe, eliminate or limit the release of the product (limit the liquid inflow, seal, place damaged packaging in an emergency packaging). Contain the spread of liquid by embanking the spill area. Pump out large quantities of collected liquid. Cover small spills with non-combustible absorbent material (e.g., earth, sand, vermiculite) and remove into closed waste containers.

6.4. Reference to other sections

Also refer to sections 8 and 13 of safety data sheet.

7. SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Prevention of fire and explosion: Work in well-ventilated rooms.

Prevention of poisoning: Avoid contact with liquid. Avoid eye contamination. Use personal protective equipment in accordance with the information in section 8 of the safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers in dry and cool place.

7.3. Specific end use(s)

See section 1.2.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Information on the procedures for monitoring the content of hazardous components in the air:	<u>Acetic acid</u> STEL (15 min):	25 mg/m ³
	TWA (8h):	10 ppm
	TWA (8h):	50 mg/m ³
	STEL (15 min):	20 ppm

DNEL and PNEC values: Acetic acid

Values specified for pure form of the ingredient:

DNEL population (inhalation, long-term exposure, local effects)	25 mg/m ³
DNEL population (inhalation, short-term exposure, local effects)	25 mg/m ³
DNELworker (inhalation, short-term exposure, local effects)	25 mg/m ³
DNELworker (inhalation, long-term exposure, local effects)	25 mg/m ³
PNEC fresh water	3,058 mg/L
PNEC marine water	0,306 mg/L
PNEC fresh water sediment	11,36 mg/kg
PNEC marine water sediment	1,136 mg/kg
PNEC soil	0,47 mg/kg
PNEC sewage treatment plant	85 mg/L

• PN-EN 689+AC:2019-06 Exposure at work stations - Measurements of inhalation exposure to chemical agents - Strategy for testing compliance with limit values.

• PN-ISO 4225:1999 Air quality. General aspects. Vocabulary.

Information on procedures to monitor airborne concentrations of hazardous ingredients:

If the concentration of a substance at the workplace is settled and known, choice of personal protection should be made accordingly to the concentration, time of exposure and activities performed by the employee.

In an emergency situation, when the concentration at the workplace is unknown, the highest class of personal protection should be applied.

• 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.

The employer is obliged to ensure that the used means of personal protection and workwear have performance and

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protection properties and ensure their proper washing, maintenance, repair and decontamination.

The recommended initial and periodic examinations of employees should be performed in accordance with:

8.2. Exposure controls

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

Individual protection measures:

Eye or face protection: Recommended equipment of the workplace with water spray for rinsing eyes. In the case of long-term exposure or risk of liquid splashing into the eye, use glasses in tight housing (goggles).

Skin protection: No special precautions are required, but in order to keep risk to a minimum it is recommended that personnel wear protective clothing, anti-slip work shoes and gloves, e.g. nitrile ones, with a thickness of >0,1 mm and penetration time > 480 minutes.

Respiratory protection: Under normal conditions of use with sufficient ventilation, no respiratory protective equipment is required, but vapors, spray or mist should not be inhaled.

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) Physical state	Liquid
b) Color	Colorless or slightly yellow
c) Odour	Pungent, characteristic of acetic acid
d) Melting point/freezing point	No data
e) Boiling point or initial boiling point and boiling range	No data
f) Flammability	Non-flammable
g) Lower and upper explosion limit	No data
h) Flash point	No data
i) Auto-ignition temperature	No data
j) Decomposition temperature	No data
k) pH	2-3
l) Kinematic viscosity	No data
m) Solubility	Water-soluble
n) Partition coefficient n-octanol/water (log value)	Not applicable to mixtures
o) Vapour pressure	No data
p) Density	~1,02 g/cm ³ at 20°C
q) Relative vapour density	No data
r) Particle characteristics	Only applicable for solids

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9.2. Other information:

Information with regard to physical hazard classes:	See section 9.1
Other safety characteristics:	No data

10. SECTION 10: Stability and reactivity

10.1. Reactivity	Reacts with bases. Corrosive to metals.
10.2. Chemical stability	Product is not reactive during stored and used in accordance with instructions.
10.3. Possibility of hazardous reactions	May be corrosive to metals. Reacts with bases.
10.4. Conditions to avoid	Keep away from direct sunlight.
10.5. Incompatible materials	metals;
10.6. Hazardous decomposition products	Irritating gases are formed as result of thermal decomposition.

11. SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

A) Acute toxicity:	Based on available data, the classification criteria are not met.
<u>Acetic acid</u>	
LC50 (inhalation, rat, 4h)	11,4 mg/L
LD50 (oral, rat)	3310 mg/kg
LD50 (skin, rabbit)	1060 mg/kg
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.

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11.2. Information on other hazards

Information on adverse health effects caused by endocrine disrupting properties not applicable

Other information: not applicable

12. SECTION 12: Ecological information

12.1. Toxicity

Acetic acid

EC50 (toxicity, aquatic invertebrates- Daphnia magna, 48h) >300,82 mg/L

LC50 (toxicity, fish, 96h) >300,82 mg/L

Other information: Not applicable.

12.2. Persistence and degradability

Acetic acid

It is biodegradable.

Other information: Not applicable.

12.3. Bioaccumulative potential

Acetic acid

Bioconcentration factor (BCF) = 3,16 n-octanol/water partition coefficient (Kow/logKow) 0,17

Other information: Not applicable.

12.4. Mobility in soil

Acetic acid

Soil/water partition coefficient (Koc) in 20°C = 1,153

Other information: Not applicable.

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Information on adverse effects on the environment caused by endocrine disrupting properties: not applicable

12.7. Other adverse effects

No data.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Waste code: **15 01 10* Packaging containing residues of or contaminated by dangerous substances.**

The recovery or disposal of waste product should be carried out in accordance with applicable regulations. Reusable containers should be reused after cleaning. Packaging waste should be disposed of in professional licensed incineration facilities or waste treatment/neutralisation plants. Recommended neutralization process: D10 Incineration on land

Waste code: **07 07 01* Aqueous washing liquids and mother liquors**

14. SECTION 14: Transport information

Mixture is not subject to regulations of transport of dangerous goods contained in: ICAO / IATA (air transport); IMDG (sea transport); RID (rail transport); ADR (road transport);

14.1. UN number or ID number	UN / ID- Nie dotyczy
14.2. UN proper shipping name	Not applicable
14.3. Transport hazard class(es)	Not applicable
14.4. Packing group	Not applicable
14.5. Environmental hazards	Not applicable
14.6. Special precautions for user	Not applicable
14.7. Maritime transport in bulk according to IMO instruments	Not applicable
Tunnel restriction code	Not applicable

15. SECTION 15: Regulatory information

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

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

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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).
- 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.
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 273/2004 of the European Parliament and of the Council of 11 February 2004 on drug precursors.
- Council regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

15.2. Chemical safety assessment

The manufacturer has not carried out a chemical safety assessment.

16. SECTION 16: Other information

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 mixture has been classified on the basis of calculations and results of the flash point and boiling point tests.
Other data sources:
ESIS- European Chemical Substances Information System (European Chemicals Bureau)
IUCLID Data Bank (European Commission – European Chemicals Bureau)
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.
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.

Card issue history

Update:	Scope of updates	Version:
2023-02-06	Date of issue.	1.0

Explanation of abbreviations and acronyms in the safety data sheet:

- 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

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LD50 – 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
ECX – 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
SDS- Safety Data Sheet

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

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