

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)


TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

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

- 1.1. Product identifier**
Substance / mixture TWISTER air freshener mixture
UFI UG5V-TJV5-H00Y-MFPM
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
The product is designed to freshen the air and neutralize unpleasant odours.
Main intended use
PC-AIR-2 Air care products for indoor rooms (instant action)
Secondary uses
PC-AIR-1 Air care products for indoor rooms (continuous action)
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
Manufacturer
Name or trade name P.W. ROKO Robert Komorniczak
Address ul. Wąska 23, Komorniki, 62-052 Poland
Identification number (CRN) 632379987
VAT Reg No PL7810004269
Phone +48618107819
E-mail biuro@rokochemia.pl
Web address rokochemia.pl
Competent person responsible for the safety data sheet
Name P.W. ROKO Robert Komorniczak
E-mail biuro@rokochemia.pl
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.
Flam. Liq. 3, H226
Full text of all classifications and hazard statements is given in the section 16.
Most serious adverse physico-chemical effects
Flammable liquid and vapour.
Most serious adverse effects on human health and the environment
Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**
Hazard pictogram

Signal word
Warning

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

Hazard statements

H226 Flammable liquid and vapour.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use non-sparking tools.
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

Supplemental information

<5 % non-ionic surfactants, <5 % EDTA and salts thereof, perfumes, colorant

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6	ethanol	15-30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	propan-2-ol	<0,48	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0	butanone	<0,48	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

Notes

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water or shower.

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II to Regulation No. 1907/2006 European Parliament and of the Council on the registration, evaluation, authorization and applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

If swallowed

DO NOT INDUCE VOMITING - even the induced vomiting can cause complications as in case of detergents and other foaming substances.

4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date 06th July 2023

Revision date Version 5.0 EU

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
500 ml	bottle	PET
1 l	bottle	PE
5 l	jerry can	PE

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union

Commission Directive 2000/39/EC

Substance name (component)	Type	Value
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m ³
	OEL 8 hours	200 ppm
	OEL 15 minutes	900 mg/m ³
	OEL 15 minutes	300 ppm

DNEL

ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers (0)	Inhalation	950 mg/m ³	Chronic effects systemic		
Workers (0)	Inhalation	1900 mg/m ³	Acute effects systemic		
Workers (0)	Dermal	343 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Inhalation	114 mg/m ³	Chronic effects systemic		
Consumers (0)	Inhalation	950 mg/m ³	Acute effects systemic		
Consumers (0)	Dermal	206 mg/kg bw/day	Chronic effects systemic		
Consumers (0)	Oral	87 mg/kg bw/day	Chronic effects systemic		

PNEC

ethanol

Route of exposure	Value	Value determination	Source
Drinking water	0.96 mg/l		
Marine water	0.79 mg/l		

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

ethanol

Route of exposure	Value	Value determination	Source
Freshwater sediment	3.6 mg/kg of dry substance		
Sea sediments	2.9 mg/kg of dry substance		
Soil (agricultural)	0.63 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	580 mg/l		
Water (intermittent release)	2.75 mg/l		

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	red, violet, blue, orange, pink, green, yellow
color intensity	transparent
Odour	according to fragrance
Melting point/freezing point	<0 °C
Boiling point or initial boiling point and boiling range	>87 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	35 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	4,3-5 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	easily dissolvable in cold water
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0,96-0,99 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

not available

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

SECTION 10: Stability and reactivity

- 10.1. Reactivity**
not available
- 10.2. Chemical stability**
The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions**
Unknown.
- 10.4. Conditions to avoid**
The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.
- 10.5. Incompatible materials**
Protect against strong acids, bases and oxidizing agents.
- 10.6. Hazardous decomposition products**
Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.
ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Inhalation	LC ₅₀	20000 ppm	10 hours	Rat (<i>Rattus norvegicus</i>)		
Inhalation	LC ₅₀	39 mg/m ³	4 hours	Mouse		
Oral	LD ₅₀	7060 mg/kg		Rat (<i>Rattus norvegicus</i>)		
Oral	LD ₅₀	3450 mg/kg		Mouse		
Oral	LD ₅₀	6300 mg/kg		Rabbit		

TWISTER air freshener

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	250000 mg/kg				Calculation of value

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

ethanol

Parameter	Value	Exposure time	Species	Environment
LC ₅₀	12900-15300 mg/l	96 hours	Fish	
EC ₅₀	34900 mg/l	5-30 minutes	Bacteria	

12.2. Persistence and degradability

The mixture is biodegradable.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

14.7. Maritime transport in bulk according to IMO instruments
not relevant

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 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the 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, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. 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).

15.2. Chemical safety assessment
not available

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.

A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
--------	---

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization

SAFETY DATA SHEET

In accordance with Regulation (EC) No. 2020/878 of June 18, 2020 amending Annex II
to Regulation No. 1907/2006
European Parliament and of the Council on the registration, evaluation, authorization and
applicable restrictions on chemicals (REACH)

TWISTER air freshener

Creation date	06th July 2023	Version	5.0 EU
Revision date			

INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 5.0 replaces the SDS version from 30 January 2023. Changes were made in sections 2, 11, 15 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.