



Since 1972

SAFETY DATA SHEET

MULTI-PURPOSE SILICON SEALANT,
WHITE

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

1.1 Product identifier

Trade name:	<u>MULTI-PURPOSE SILICON SEALANT, WHITE</u>
Other names:	Universal Silicone White
Contains:	not applicable
CAS Number:	not applicable
EC Number:	not applicable
Index number:	not applicable
Registration number:	not applicable
Date of issue:	2016-10-03

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

Identified use:	This product is used as a seal around bathtubs, washbasins, shower trays, shower enclosures, kitchen sinks and other sanitary appliances and kitchen equipment, and for pointing decorative tiles, particularly in areas of high humidity. This silicone product is recommended for sealing around ceramic, stoneware, and brick tiles, ceramic sanitary ware, impregnated wood as well as surfaces of glass, china, anodised aluminium, stainless steel and enamelled surfaces.
Use advised against:	Other than those mentioned above, consumption. Do not use as lubricant for rolling bearings and precision mechanisms.

1.3 Details of the supplier of the safety data sheet

Made by: Dragon Poland
Spółka z ograniczoną odpowiedzialnością Sp. k.
ul. rtm. W. Pileckiego 5, 32-050 Skawina, Poland
+48 12 625 75 00; info@dragon.com.pl; export@dragon.com.pl
www.dragon.com.pl

E-mail address of the person responsible for the safety data sheet: technologia1@dragon.com.pl

Made for: TESCO

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.

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Health hazards:

Skin Irrit. 2 – Skin corrosion/irritation, category 2

H315 – Causes skin irritation.

Environmental hazards:

Not classified.

2.2. Label elements



GHS pictogram:

GHS07

Signal word:

WARNING

Contains:

not applicable

Hazard phrases:

H315 – Causes skin irritation.

Supplemental label elements:

EUH208 – Contains 4,5-dichloro-n-octyl-4-isothiazolin-3-one. May produce an allergic reaction.

Safety phrases:

P102 – Keep out of reach of children.

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

P302 + P352 – IF ON SKIN: Wash with plenty of water and soap.

P332 + P313 – If skin irritation occurs: Get medical advice/ attention.

P501 – Dispose of contents/container to companies with the necessary permission 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: Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Index number: -

CAS number: -

EC number: 932-078-5

Concentration [mass percentage]: **0 – 30%**

Registration number: 01-2119552497-29-XXXX

Hazards resulting from physicochemical properties:

Not classified.

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Hazards to human:

Asp. Tox. 1 – Aspiration hazard, hazard category 1

H304 – May be fatal if swallowed and enters airways.

Environmental hazards:

Not classified.

Name: Triacetoxyethylsilane

Index number: -

CAS number: **17689-77-9**

EC number: 241-677-4

Concentration [mass percentage]: **0 – <3%**

Registration number: 01-2119881778-15-XXXX

Hazards resulting from physicochemical properties:

Not classified.

EUH014 - Reacts violently with water.

Hazards to human:

Acute Tox. 4 – Acute toxicity, category 4

H302 – Harmful if swallowed.

Skin Corr. 1B – Skin corrosion/irritation, category 1B

H314 – Causes severe skin burns and eye damage.

Eye Dam. 1 – Serious eye damage/eye irritation, category 1

H318 – Causes serious eye damage.

Environmental hazards:

Not classified.

Name: Ethyl and methylacetoxysilane oligomers

Index number: -

CAS number: -

EC number: -

Concentration [mass percentage]: **0 – <2%**

Registration number: -

Hazards resulting from physicochemical properties:

Not classified.

Hazards to human:

Skin Corr. 1B – Skin corrosion/irritation, category 1B

H314 – Causes severe skin burns and eye damage.

Eye Dam. 1 – Serious eye damage/eye irritation, category 1

H318 – Causes serious eye damage.

Environmental hazards:

Not classified.

Name: Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

Index number: -

CAS number: **1335203-17-2**

EC number: 934-956-3

Concentration [mass percentage]: **0 – 50%**

Registration number: 01-2119827000-58-XXXX

Hazards resulting from physicochemical properties:

Not classified.

Hazards to human:

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Asp. Tox. 1 – Aspiration hazard, hazard category 1

H304 – May be fatal if swallowed and enters airways.

Environmental hazards:

Not classified.

Name: **Acetic acid**

Index number: 607-002-00-6

CAS number: **64-19-7**

EC number: 200-580-7

Concentration [mass percentage]: **0 – <1%**

Registration number: 01-2119475328-30-XXXX

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/irritation, category 1A

H314 – Causes severe skin burns and eye damage.

Eye Dam. 1 – Serious eye damage/eye irritation, category 1

H318 – Causes serious eye damage.

Environmental hazards:

Not classified.

**Specific concentration limits*

Eye Irrit. 2; H319: $10\% \leq C < 25\%$

Skin Corr. 1A; H314: $C \geq 90\%$

Skin Corr. 1B; H314: $25\% \leq C < 90\%$

Skin Irrit. 2; H315: $10\% \leq C < 25\%$

4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one

4 SECTION 4: First aid measures

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: Remove contaminated clothing. Wash contaminated skin thoroughly with water and soap. If symptoms persist, consult a doctor.

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: If the product is consumed, rinse the mouth and move the victim to fresh air, keep warm and at rest. If the product has been swallowed and the victim is conscious, have her/him drink water. If symptoms develop or discomfort occurs, get medical attention.

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

No data available.

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

Never give anything by mouth to an unconscious person and do not induce vomiting. Show this MSDS, label or package to the medical personnel treating the victim.

Notes to physician: treat symptomatically.

5. SECTION 5: Firefighting measures

5.1 Extinguishing media

Appropriate firefighting measures: Alcohol-resistant foam, carbon dioxide, water fog, sprinkler system, sand, extinguishing powder

Inappropriate firefighting measures: water jets.

5.2 Special hazards arising from the substance or mixture

In a fire hazardous combustible gases and vapours may be produced. Hazardous combustion products include: carbon dioxides, silica oxides, incompletely burned hydrocarbons, poisonous and highly poisonous gases of combustion.

5.3 Advice for firefighters

Use standard protective equipment appropriate for fires.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Exercise caution, spilled product may create slippery conditions on surfaces. Avoid direct contact with eyes. When removing the mixture, use personal protective equipment.

6.2. Environmental precautions

Do not allow large amounts of the product to enter sewers, water courses or soil.

6.3. Methods and material for containment and cleaning up

Collect spilled product using non-combustible materials. 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.

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7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevention of fire and explosion: the product may give off acetic acid. Handle the material in well-ventilated areas. Keep away from materials intolerant to each other according to section 10.

Poisoning prevention: Exercise good hygiene practice: do not eat, drink or smoke while handling the product, wash hands with soap at the end of each shift, prevent contamination of clothing. Use personal protective equipment as directed in section 8 of this SDS.

7.2. Conditions for safe storage, including any incompatibilities

Store in original, certified, properly labelled and sealed containers in a ventilated storage facility. Do not smoke or use naked flame in the storage facility.

7.3. Specific end use(s)

See section 1.2.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TWA and STEL values:

Acetic acid

TWA - 10 ppm (25 mg/m³)

STEL - 20 ppm (50 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).

DN(M)EL and PNEC values:

Not applicable.

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.

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8.2. Exposure controls

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. Eye shower is recommended in the workplace.

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 >0,4 mm and penetration time > 480 minutes. Gloves should be changed regularly, or immediately if any signs of wear or damage show (if torn, punctured) or their appearance changes (in terms of colour, flexibility, shape).

- 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:

No respiratory protection equipment is required under normal conditions of use with sufficient ventilation, but product vapours should not be inhaled. If there is any risk of exposure to concentrated vapours, personnel should wear gas-masks with ABEK filters.

- 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	white high viscous homogeneous paste
B)	Odour	characteristic, chemical
C)	Odour threshold	not determined
D)	pH	not determined
E)	Melting point/freezing point	not determined
F)	Initial boiling point and boiling range	not determined
G)	Flash point	not determined
H)	Evaporation rate	not determined
I)	Flammability (solid, gas)	not determined

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J)	Upper/lower flammability or explosive limits	not determined
K)	Vapour pressure	not determined
L)	Vapour density	not determined
M)	Relative density	0.95 – 0.97 [g/cm ³] (20°C)
N)	Solubility(ies)	in water – practically insoluble
O)	Partition coefficient: n-octanol/water	not determined
P)	Auto-ignition temperature	not determined
Q)	Decomposition temperature	not determined
R)	Viscosity	> 20 mm ² /s (40°C)
S)	Explosive properties	does not exhibit
T)	Oxidizing properties	does not exhibit

9.2. Other information

Solubility in water: Hydrolytic decomposition occurs. PH value: The product reacts acidally with water. Explosion limits for separated acetic acid: 4 - 17% vol.

10. SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under recommended conditions of use.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Not reactive under recommended conditions of use.

10.4. Conditions to avoid

Humidity, high temperature, open flame and other ignition sources

10.5. Incompatible materials

Reacts with water, bases and alcohols, producing acetic acid.

10.6. Hazardous decomposition products

Hydrolysis will produce acetic acid. At temperatures approx. 150°C formaldehyde is released through oxidative decomposition.

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11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazard classes for which information is provided include:

A) acute toxicity;

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

Mixture:

LD 50(rat, oral)	>2000 mg/kg
LD 50(rabbit, skin)	>2009 mg/kg
ATEmix (oral):	> 5000 mg/kg - estimate

Acetic acid:

LD 50(rat, oral)	>3310 mg/kg
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B) skin corrosion/irritation;

Causes skin irritation. OECD Guideline 404 (Acute Irritation / Skin Corrosion) (Rabbit): Causes skin irritation. The health hazard assessment was based on the toxicological properties of similar material.

C) serious eye damage/irritation;

- Not irritating: In vitro analysis; cow's eye / cornea of the cow's eye. OECD 437.
- Non-irritating substance: OECD Guideline 405 (Acute Irritation / Eye Corrosion) (Rabbit): Slightly irritating. The health hazard assessment was based on the toxicological properties of similar material.

D) respiratory or skin sensitisation;

Based on available data, the classification criteria are not met, but product contains 4,5-Dichloro-2-n-octyl-4-isothiazolin-3-one and may produce an allergic reaction.

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

This mixture does not meet potential chronic aquatic toxicity criteria.

Mixture

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EC50 (toxicity, aquatic invertebrates – Daphnia magna, 48h)	>10 – <100 mg/L (calculated value)
NOEC (toxicity, invertebrates – Daphnia magna, 21 days)	> 1 mg/L (calculated value)
LC50 (toxicity, fish – Oncorhynchus mykiss, 96h)	>10 – <100 mg/L (calculated value)
NOEC (toxicity, fish – Oncorhynchus mykiss)	>1 mg/L (calculated value)
ERC (toxicity, Navicula pelliculosa, 24h)	> 10 – <100 mg/L (calculated value)
NOEC (toxicity, Navicula pelliculosa, 24h)	> 1 mg/L (calculated value)

4,5-dichloro-2-n-octyl-4-isothiazolin-3-one:

LC50 (acute toxicity, fish – Oncorhynchus mykiss, 96h, OECD 203)	0.0027 mg/L
EC50 (acute toxicity, invertebrates – Daphnia magna, 48h, OECD202)	0.0052 mg/l
ErC50 (chronic toxicity, Navicula pelliculosa, 24 h, OECD 201)	0.0016 mg/l
NOEC (chronic toxicity, Navicula pelliculosa, 24 h, OECD 201)	0.00034 mg/l
NOEC (toxicity, fish – Oncorhynchus mykiss, 97 d, OECD 210)	0.00056 mg/l
NOEC (acute toxicity, invertebrates – Daphnia magna, 21 days OECD211)	0.00063 mg/l

Acetic acid:

LC50 (Lepomis macrochirus, 96 h):	75 mg/l
LC0 (Leuciscus idus):	368 mg/l
LC100 (Leuciscus idus):	452 mg/l
LC50 (Leuciscus idus, 48 h):	410 mg/l
LC50 (Pimephales promelas, 96 h):	88 mg/l
LC0 (Daphnia magna):	150 mg/l
EC50 (Daphnia magna, 24 h):	95 mg/l

12.2. Persistence and degradability

The product is not biodegradable. Separated by sedimentation. The product of hydrolysis (acetic acid) is readily biodegradable.

acetic acid

Biological degradation (5 d): 60%

12.3. Bioaccumulative potential

The product is not likely to bioaccumulate.

12.4. Mobility in soil

The product does not dissolve in water.

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

No data available.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Waste code: 07 02 16* Wastes containing hazardous silicones

Do not empty into drains. Do not allow contamination of surface or ground waters. Do not dispose of in municipal landfills. Consider reuse. The recovery or disposal of waste product should be carried out by a licensed operator in accordance with applicable regulations.

Waste code: 15 01 02 Plastic packaging

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.

14. SECTION 14: Transport information

The mixture is not classified as dangerous in transport.

14.1. UN number

not applicable

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 users

not applicable

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

not applicable

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).

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- 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 Commission – European Chemicals Bureau).

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

Revision date	Revision scope	Version
2016-10-03	Date of issue.	MSDS/TSS/03-10-2016/EN
2018-03-30	Change of supplier	MSDS/TSS/30-03-2018/EN
2020-06-30	Changes in 2 and 3 Section: update of classification	2.0 (SDS/TRSU300BI/EN/2020-06-30)

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:

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)

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Since 1972

SAFETY DATA SHEET

**MULTI-PURPOSE SILICON SEALANT,
WHITE**

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

PNEC – Predictable No-Effect Concentration

DNEL – Derived No-Effect Level

BCF – Bioconcentration factor

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

EC_x – 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

SDS – Safety Data Sheet

Trainings:

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

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

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