

SAFETY DATA SHEET

according to Regulation No 1907/2006 of the European Parliament and of the Council, as subsequently amended

Date of issue: 06. 02. 2018

Product code: -

Version: 1.0

Date of revision: -

Replaced version from: -

Page: 1 z 10

Trade Name: **Ultra-Ever Dry SE (Top Coat)**

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

1.1 Product identifier

Trade Name **Ultra-Ever Dry SE (Top Coat)**
Mixture description A mixture of acetone, amorphous silica and additives.

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

Identified uses Oleophobic top coat for use on various substrates and exhibiting superhydrophobic and oleophobic characteristics.
Uses advised against Only for identified uses.

1.3 Details of the supplier of the safety data sheet

NetDesign, s.r.o.
Kosmova 342/10
460 14 Liberec 13
Czech Republic
telephone: +420 608 514 272
e-mail address for a competent person responsible for the SDS: netdesign@netdesign.cz

1.4 Emergency telephone number

112 (General emergency phone), 998 (fire brigade), 999 (ambulance service).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The mixture **is classified as dangerous** according to regulation 1272/2008/EC.

Classification according to 1272/2008/EC **Flam. Liq. 2; H225**
Eye Irrit. 2; H319
STOT SE 3; H336

Full text of classifications and H-phrases: see section 16.

The most important adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2 Label elements

hazard pictograms



signal word

Danger

components of the mixture to be placed on the label

Contains acetone.

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hazard statements

H225 - Highly flammable liquid and vapour.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing vapours.

P271 - Use only outdoors or in a well-ventilated area.

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

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P337+P313 - If eye irritation persists: Get medical advice/attention.

P405 - Store locked up.

In case of sale to the general public:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P501 - Dispose of contents/container to in accordance with local regulations.

supplemental hazard information EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Mixture or its components are not classified as PBT or vPvB, not the date of issue of the safety data sheet kept on the candidate list for Annex XIV of the REACH Regulation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

3.2.1 Components of a mixture classified as hazardous

Chemical identity	CAS Number EC Number Index Number	Registration Number	Content (wt. %)	Classification 1272/2008/EC
Acetone; Propan-2-one; Propanone	67-64-1 200-662-2 606-001-00-8	01-2119471330- 49-XXXX	96 - 98	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066

3.2.2 Other substances

Chemical identity	CAS Number EC Number Index Number	Registration Number	Content (wt. %)	Classification 1272/2008/EC
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Amorphous silica	112945-52-5 601-216-3 not given	not yet available	2 - 4	not classified
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SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. An unconscious person never give anything.

4.1 Description of first aid measures

Inhalation

Interrupt the exposure, transfer the person to the fresh air. In case of persistent nausea, seek medical advice.

Skin contact

Remove contaminated clothing, shoes, and wash thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

Eye contact

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Move to the physician while continue rinsing.

Ingestion

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Causes eye irritation. Repeated exposure may cause skin dryness or cracking. Inhalation of vapours may cause upper respiratory tract irritation and may cause drowsiness or dizziness. Risk of aspiration. May cause irritation to the mouth, throat and stomach.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons

Solid streams of water may be ineffective.

5.2 Special hazards arising from the substance or mixture

Fire water and the rest of the product must be contained and prevented from being discharged to any waterway, sewer or drain. Collect it separately and dispose of safely in accordance with applicable laws and local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, silicon oxides and products of incomplete combustion.

5.3 Advice for firefighters

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Highly flammable liquid and vapour. Vapours may accumulate in confined areas and present a fire or explosion hazard. Vapors may be heavier than air and travel along surfaces to remote ignition sources and flash back.

Stop further leakage of product if possible. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Eliminate all sources of ignition.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let the product enter drains. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

6.3 Methods and material for containment and cleaning up

According to the amount of spilled liquid, drain away the substance (large spillage) or in case of small spillage, absorb it with suitable absorbent (vermikulit, dry sand), put into labelled closed containers and dispose of them accordingly to Section 13. Flush residues with water and collect it for waste disposal.

If the packaging is damaged, move the contents to the new, undamaged packaging and label them again.

6.4 Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide good ventilation to prevent the formation of vapour. Avoid contact with skin and eyes. Do not use dirty clothes. After work, rinse thoroughly with warm water and soap. Use a protective cream.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container at temperature under 49 C. Protect containers from physical damage. Store away from strong oxidizers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

7.3 Specific end use(s)

See sections 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limit value

EU

Acetone:

Limit values: Eight hours: 1210 mg/m³, 500 ppm; Short-term: - mg/m³, - ppm.

8.1.2 Biological limit values

Not are determined in EU

8.1.3 DNEL and PNEC values

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Acetone

CAS: 67-64-1

DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	1 210 mg/m ³
Workers	Inhalation	Local effect	Long term	2 420 mg/m ³
Workers	Dermal	Systemic effect	Long term	186 mg/kg/day
General population	Inhalation	Systemic effect	Long term	200 mg/m ³
General population	Dermal	Systemic effect	Long term	62 mg/kg/day
General population	Oral	Systemic effect	Long term	62 mg/kg/day

PNEC

Fresh water	Marine water	Intermittent releases	STP	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
10.6 mg/l	1.06 mg/l	21 mg/l	100 mg/l	30.4 mg/kg	3.04 mg/kg	not given	29.5 mg/kg	no effect

8.2 Exposure controls

8.2.1 Exposure reduction (technical measures)

Use only in well-ventilated areas.

Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.

8.2.2 Individual protection measures, such as personal protective equipment

Respiratory protection

Not necessary in case of compliance concentration limits (if they were exceeded, or in case of insufficient ventilation respirator for organic vapors, use a respirator against organic vapors). In the event of an accident or a fire use self-contained breathing apparatus.

Hand protection

Chemically resistant protective gloves.

Material:

butyl rubber, penetration time: > 480 min., glove thickness: 0.4 mm

Eye/face protection

In normal use it is not necessary in case of contact with eyes, wear protective goggles.

Skin protection

Suitable protective working clothing and footwear.

Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream.

8.2.3 Environmental exposure reduction

Uncontrolled release of the substance/formulation into environment is to be avoided. Observe the emission limits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance (at 20 C)

clear liquid with suspended fine particles, colorless

Odour

mint

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Odour threshold	not determined
pH (at 20 C)	7
Melting point/freezing point	-95 C
Boiling point (range)	56 C
Flash point	-20 C
Evaporation rate	slower than ether
Flammability	not determined
Explosive limits	<i>lower</i> (% vol.) 2 vol.%
	<i>upper</i> (% vol.) 13 vol.%
Vapour pressure (at 20 C)	240 hPa
Vapour density	heavier than air
Relative density	0.79 (water = 1)
Solubility in water (at 20 C)	soluble
Solubility in organic solvents:	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	465 C
Decomposition temperature	not determined
Viscosity	not determined
Explosive properties	is not classified as explosive
Oxidising properties	is not classified as an oxidant

9.2 Other information

VOC 98 %

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture is stable under normal conditions of use.

10.2 Chemical stability

Stable under recommended storage conditions. Avoid temperatures above 49 C.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Strong oxidizing agents, strong acids and base.

10.6 Hazardous decomposition products

Burning releases carbon oxides, silicon oxides and products of incomplete combustion.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

- *LD₅₀ oral, rat (mg/kg)*

Data for the mixture are not available

5 800 - acetone (female)

- *LD₅₀ skin, rat or rabbit (mg/kg)*

Data for the mixture are not available

> 7 426 - acetone (rabbit)

- *LC₅₀ inhalation, rat (mg/l, 4 h)*

Data for the mixture are not available

76 - acetone (vapour, female)

Skin corrosion/irritation

A slight effect, the classification criteria are not fulfilled
not irritant - mean erythema score = 0 and oedema = 0 -
acetone (rabbit, OECD 404)

Serious eye damage/irritation

Causes serious eye irritation.

classified as irritant for the eyes - acetone (rabbit, 72 hr.,
OECD 405).

Respiratory or skin sensitisation

Not containing these substances (or less than the
classification limit)

not skin sensitising - acetone (guinea pig, maximalization
test)

Carcinogenicity

Not containing these substances (or less than the
classification limit)

NOEL = 79 mg/mouse - acetone (mouse, dermal)

Germ cell mutagenicity

Not containing these substances (or less than the
classification limit)

negative - acetone (OECD 471, OECD 473, OECD 476)

Reproductive toxicity

Not containing these substances (or less than the
classification limit)

Specific target organ toxicity – single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure

Not classified

NOAEL = 20 000 ppm - acetone (oral, mouse, OECD
408)

NOAEC = 19 0000 ppm - acetone (vapour, rat)

Aspiration hazard

Not classified

Other information

See section 2 and 4.

SECTION 12: Ecological information

12.1 Toxicity

Fish

Data for the mixture are not available

LC₅₀, 96 hrs., Pimephales promelas: 6 210 mg/l - acetone

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Daphnia Data for the mixture are not available
EC₅₀, 48 hrs., Daphnia Pulex: 8 800 mg/l - acetone
NOEC, 28 d., Daphnia Magna: 2 212 mg/l - acetone

Algae Data for the mixture are not available
NOEC, 8 d., Microcystis aeruginosa: 530 mg/l - acetone

12.2 Persistence and degradability

Data for the mixture are not available
readily biodegradable: 90,9 % after 28 days - acetone (CO₂ evolution, OECD 301B)

12.3 Bioaccumulative potential

Data for the mixture are not available
log Pow = -0,23 - acetone (calculation)

12.4 Mobility in soil

Data for the mixture are not available

12.5 Results of PBT and vPvB assessment

Mixture or its components are not classified as a PBT or a vPvB.

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods of the substance or mixture and the contaminated packaging

Delete according to the applicable European and local regulations (eg. in a hazardous waste incinerator). Never remove flushing into sewer! Do not contaminate ponds or ditches with chemical or used container. Residual amounts and solutions to a licensed disposal company.

For classifying the waste and the removal of waste producer responsibility.

Possible waste code 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances

Physical/chemical properties that may affect waste treatment options

Flammability.

Special precautions recommended for waste management

None known.

Waste legislation

Directive 2008/98/EC

SECTION 14: Transport information

14.1 UN number

1263

14.2 UN proper shipping name

- ADR/RID/IMDG/IATA

PAINT (Acetone)

14.3 Transport hazard class(es)

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14.4 Packing group

II

14.5 Environmental hazards

not given

14.6 Special precautions for user

not given

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

not available

Marking according to ADR



ADR/RID

- classification code	F1
- labels	3
- hazard identification code	33
- tunnel restriction code	D/E (ADR), - (RID)

IMDG

- Emergency Schedules (EmS)	F-E/S-E
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SECTION 15: Regulatory information

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

Regulation No. 1907/2006/ES, REACH.

Regulation No. 1272/2008/ES, CLP.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Reason for alteration

First edition.

Key or legend to abbreviations and acronyms used in the safety data sheet

Eye Irrit. 2	Eye irritation, cat. 2
Flam. Liq. 2	Flammable liquid, cat. 2
STOT SE 3	Specific target organ toxicity — single exposure, cat. 3

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PBT	Persistent, bioaccumulative, toxic chemical
vPvB	Very persistent and very bioaccumulative chemical
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
CLP	Regulation No. 1272/2008/EC
REACH	Regulation No. 1907/2006/EC
ADR	Accord Dangereuses Route
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Dangerous Goods
ICAO/IATA	International Air Transport Association
VOC	Volatile organic compound

Sources of key data used to compile the Safety Data Sheet

European legislation, chemical databases and tables, tests, registration dossier of compounds.

List of H- and P- phrases

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container to in accordance with local national regulation.

Training advice

According to MSDS.

Relevant information for classification

According to additional method of CLP. Classification according to data from the manufacturer. The mixture does not have a harmonized classification in the EU. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

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