

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

1.1 Product identifier

Trade name: Dew Clear

UFI: K220-H0JX-U008-Q8V9

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

Application of the substance / the mixture Agent for removing dew.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

TURF Handels GmbH

Am Hartboden 48

A-8101 Gratkorn

T: +43 3124 29064

F: +43 3124 29062

Further information obtainable from: Email: office@turf.at

1.4 Emergency telephone number:

+43 3124 29064

Available during office hours:

Mo - Th: 8 a.m. - 4.30 p.m.

Fr: 8 a.m. - 2.30 p.m.

Call the national emergency number!

* **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Additional information: For the wording of the hazard categories, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05



GHS07

Trade name: Dew Clear

(Contd. of page 1)

Signal word Danger

Hazard-determining components of labelling:

Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts
1,2-benzisothiazol-3(2H)-one

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.






*** SECTION 3: Composition/information on ingredients**

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

[% (w/w)]

CAS: 68081-81-2 EINECS: 268-356-1	Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts  Eye Dam. 1, H318  Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335 ATE: LD50 oral: 500 mg/kg	10 - 30%
CAS: 8002-74-2 EINECS: 232-315-6 RTECS: RV 0350000	Paraffin waxes and Hydrocarbon waxes substance with a Community workplace exposure limit	1 - < 10%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one  Eye Dam. 1, H318  Aquatic Acute 1, H400; Aquatic Chronic 2, H411  Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	0.07%

(Contd. on page 3)

Trade name: Dew Clear

(Contd. of page 2)

Additional information: For the wording of the listed hazard phrases refer to section 16.

* SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off contaminated clothing and wash it before reuse.

Seek medical treatment.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an ophthalmologist or eye clinic immediately.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

If the patient is conscious, make him drink water.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

* SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

CO_x, SO_x

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

(Contd. on page 4)



Trade name: Dew Clear

(Contd. of page 3)

* **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).

Dispose of the material collected according to regulations.

Clean with water.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Prevent formation of aerosols.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a dry, cool, well-ventilated area.

Store in accordance with local/regional/national/international regulations.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feeding stuff.

Further information about storage conditions:

Keep container tightly sealed.

Protect container from damage.

Protect from heat and direct sunlight.

Protect from moisture.

Recommended storage temperature: room temperature

Storage class: 12

(Contd. on page 5)

Trade name: Dew Clear

(Contd. of page 4)

7.3 Specific end use(s) No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 8002-74-2 Paraffin waxes and Hydrocarbon waxes

LEP (Spain)	Long-term value: 2 mg/m ³ humos
VLEP (France)	Long-term value: 2 mg/m ³
WEL (Great Britain)	Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³
TWA (Italy)	Long-term value: 2 mg/m ³

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

MAK (Germany)	vgl.Abschn.IIb und Xc
---------------	-----------------------

Regulatory information

LEP (Spain): Límites de exposición profesional para agentes químicos

VLEP (France): ED 1487 05.2021

WEL (Great Britain): EH40/2020

TWA (Italy): Valori Limite di Soglia

MAK (Germany): MAK- und BAT-Liste

DNELs

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

Dermal	Long-term exposure - systemic effects	0.345 mg/kg bw/d (consumer) 0.966 mg/kg bw/d (workers)
Inhalative	Long-term exposure - systemic effects	1.2 mg/m ³ (consumer) 6.8 mg/m ³ (workers)

PNECs

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

fresh water	0.00403 mg/l
sea water	0.0004 mg/l
intermittent release (fresh water)	0.0011 mg/l
STP	1.03 mg/l
sediment (fresh water)	0.049 mg/kg dw
sediment (sea water)	0.0049 mg/kg dw
soil	3 mg/kg dw

Additional information: The lists valid during the making were used as basis.

(Contd. on page 6)

Trade name: Dew Clear

(Contd. of page 5)

8.2 Exposure controls

Appropriate engineering controls

No further data; see section 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Take off contaminated clothing and wash it before reuse.

Do not inhale gases / fumes / aerosols.

Ensure good ventilation/exhaustion at the workplace.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye wash bottles and emergency showers should be provided in the immediate area near the workplace.

Respiratory protection:

If vapours/aerosols and/or inadequate ventilation are present, respiratory protection must be worn.

Hand protection



Protective gloves

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Material of gloves

Butyl rubber gloves; recommended material thickness: 0.5 mm, permeation time: ≥ 480 min

Nitrile rubber gloves; recommended material thickness: 0.35 mm, penetration time: ≥ 480 min

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

Recommended: protective index 6, corresponding ≥ 480 minutes of permeation time according to EN 374

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 7)

Trade name: Dew Clear

(Contd. of page 6)

Eye/face protection



Tightly sealed goggles

EN 166

Body protection: Protective work clothing

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

* **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

Physical state	Fluid
Colour:	Light yellow
Odour:	Characteristic
Odour threshold:	No information available.
Melting point/freezing point:	

8002-74-2	Paraffin waxes and Hydrocarbon waxes	52 - 54 °C
-----------	--------------------------------------	------------

Boiling point or initial boiling point and boiling range	100 °C
Flammability	No information available.
Lower and upper explosion limit	
Lower:	No information available.
Upper:	No information available.
Flash point:	No information available.
Decomposition temperature:	No information available.
pH at 20 °C	6.7 – 7
Viscosity:	
Kinematic viscosity	No information available.
Dynamic:	No information available.
Solubility water:	Soluble.

Partition coefficient n-octanol/water (log value)

2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7 log Kow
-----------	------------------------------	-------------

Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1.041 g/cm ³
Vapour density	No information available.

9.2 Other information

Appearance:	
Form:	Fluid

(Contd. on page 8)

Trade name: Dew Clear

(Contd. of page 7)

Important information on protection of health and environment, and on safety.

Ignition temperature:	No information available.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
Oxidising properties	None.
Evaporation rate	No information available.

Information with regard to physical hazard classes

Explosives	void
Flammable gases	void
Aerosols	void
Oxidising gases	void
Gases under pressure	void
Flammable liquids	void
Flammable solids	void
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	void
Self-heating substances and mixtures	void
Substances and mixtures, which emit flammable gases in contact with water	void
Oxidising liquids	void
Oxidising solids	void
Organic peroxides	void
Corrosive to metals	void
Desensitised explosives	void

* **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

10.2 Chemical stability No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No further relevant information available.

10.4 Conditions to avoid Protect from heat and direct sunlight.

10.5 Incompatible materials:

strong oxidizing agents

strong reducing agents

strong acids

Strong alkalis.

10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

(Contd. on page 9)

Trade name: Dew Clear

(Contd. of page 8)

SECTION 11: Toxicological information

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

Acute toxicity Harmful if swallowed.

LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	1,667 – 5,000 mg/kg
------	------	---------------------

CAS: 68081-81-2 Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts

Oral	LD50	500 mg/kg (ATE)
------	------	-----------------

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	531 mg/kg (rat)
------	------	-----------------

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

NOEC	0.21 mg/l (fish) (Onchorhynchus mykiss)
	OECD 215

NOEC (21 d)	1.2 mg/l (daphnia) (Daphnia magna)
	OECD 211

EC10 (72 h)	0.04 mg/l (algae) (Selenastrum capricornutum)
	OECD 201

12.2 Persistence and degradability

2634-33-5	1,2-benzisothiazol-3(2H)-one	70 - 80 % (28 d)
-----------	------------------------------	------------------

12.3 Bioaccumulative potential

2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7 log Kow
-----------	------------------------------	-------------

12.4 Mobility in soil No further relevant information available.

(Contd. on page 10)



Trade name: Dew Clear

(Contd. of page 9)

12.5 Results of PBT and vPvB assessment

PBT: No data available.

vPvB: No data available.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

* **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

02 01 08*	agrochemical waste containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity

Uncleaned packaging:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

* **SECTION 14: Transport information**

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class not regulated

14.4 Packing group

ADR/RID/ADN, IMDG, IATA not regulated

14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user Not applicable.

(Contd. on page 11)



Trade name: Dew Clear

(Contd. of page 10)

14.7 Maritime transport in bulk according to IMO instruments Not applicable.
UN "Model Regulation": not regulated

* **SECTION 15: Regulatory information**

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

(Contd. on page 12)



Trade name: Dew Clear

(Contd. of page 11)

Training hints

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

Classification according to Regulation (EC) No 1272/2008

Acute toxicity - oral
Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitisation
Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: office@umena.at

Date of previous version: 26.08.2016

Version number of previous version: 1.0

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**