

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

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Version 08. Supersedes version: 07

Page 1 / 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Dreieck Fase 430****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

Advisory body +43(0) 1 406 43 43 (24h)
Company

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms none**Signal word** none**Hazard statements** none**Precautionary statements** none**Special labelling** EUH210 Safety data sheet available on request.**UFI:** -**Special labelling** Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine. EUH208 May produce an allergic reaction.**2.3 Other hazards****Physico-chemical hazards** Contact with moisture liberates Methanol.**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.**Environmental hazards** The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII: UV-328 (CAS 25973-55-1)**Other hazards** Further hazards were not determined with the current level of knowledge.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 2 / 11

SECTION 3: Composition / Information on ingredients**Product-type:**

3.2 The product is a mixture.

Range [%]	Substance
1 - < 10	Trimethoxyvinylsilane CAS: 2768-02-7, EINECS/ELINCS: 220-449-8, Reg-No.: 01-2119513215-52-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332
0,1 - <1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, Reg-No.: 01-2119970215-39-XXXX GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1: H317
0,1 - <1	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) CAS: 25973-55-1, EINECS/ELINCS: 247-384-8, Reg-No.: 01-2119955688-17-XXXX GHS/CLP: STOT RE 2: H373 - Aquatic Chronic 4: H413

Comment on component parts

SVHC (Candidate List of Substances of Very High Concern for authorisation) \geq 0.1%
CAS 25973-55-1 - 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 3 / 11

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
No special measures necessary if used correctly.

Wash hands before breaks and after work.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

Ramsauer GmbH & Co KG

4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 4 / 11

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Long-term exposure: 200 ppm, 266 mg/m ³ , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m ³
Limestone
CAS: 1317-65-3, EINECS/ELINCS: 215-279-6
Long-term exposure: 10 mg/m ³ , inhalable dust; respirable dust: 4 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

Substance
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), CAS: 25973-55-1
Industrial, dermal, Long-term - systemic effects: 0,3 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 0,7 mg/m ³ .
Trimethoxyvinylsilane, CAS: 2768-02-7
Industrial, dermal, Long-term - systemic effects: 3.9 mg/kg bw/d (AF= 44).
Industrial, inhalative, Long-term - systemic effects: 27.6 mg/m ³ (AF= 11).
general population, oral, Long-term - systemic effects: 0.3 mg/kg bw/d (AF= 192).
general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/d (AF= 64).
general population, inhalative, Long-term - systemic effects: 18.9 mg/m ³ (AF= 8).
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Industrial, dermal, Acute - systemic effects: 5 mg/kg/d.
Industrial, dermal, Long-term - systemic effects: 5 mg/kg/d.
Industrial, inhalative, Long-term - systemic effects: 35,5 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 8,7 mg/m ³ .
general population, oral, Long-term - systemic effects: 2,5 mg/kg/d.
general population, dermal, Long-term - systemic effects: 2,5 mg/kg/d.

PNEC

Substance
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), CAS: 25973-55-1
sewage treatment plants (STP), 1 mg/l.
freshwater, 0,01 mg/l.
seawater, 0,001 mg/l.
soil, 9 mg/kg.
sediment (seawater), 4,51 mg/kg.
sediment (freshwater), 45,1 mg/kg.
Trimethoxyvinylsilane, CAS: 2768-02-7
sediment (seawater), 0.15 mg/kg dw.
freshwater, 0.4 mg/L (AF= 50).

Ramsauer GmbH & Co KG

4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 5 / 11

sediment (freshwater), 1.5 mg/kg dw.

sewage treatment plants (STP), 6.6mg/L (AF= 10).

seawater, 0.04 mg/L (AF= 500).

soil, 0.06 mg/kg dw.

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

sediment (freshwater), 0,05 mg/kg.

seawater, 0,0062 mg/l.

freshwater, 0,062 mg/l.

sediment (seawater), 0,005 mg/kg.

soil, 0,0075 mg/kg.

sewage treatment plants (STP), 25 mg/l.

8.2 Exposure controls**Additional advice on system design**

Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection

Safety glasses. (EN 166:2001)

Hand protection

0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection

Not required under normal conditions.

Other

Avoid contact with eyes and skin.

Do not inhale vapours.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

Respiratory protection

In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards

no

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 6 / 11

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form	pasty
Color	grey
Odor	odourless
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	ca. 1,56 (EN ISO 1183-1)
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity**10.1 Reactivity**

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

Strong heating.

10.5 Incompatible materials

Water

10.6 Hazardous decomposition products

Contact with moisture liberates Methanol.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 7 / 11

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, inhalative, > 20 mg/l (4 h).
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), CAS: 25973-55-1
LD50, dermal, Rabbit: > 1100 mg/kg (OECD 402).
LD50, oral, Rat: > 7750 mg/kg (OECD 401).
LC50, inhalative, Rat: > 0,4 mg/l (4 h) (OECD 403).
Trimethoxyvinylsilane, CAS: 2768-02-7
LD50, dermal, Rabbit: 3259 mg/kg bw.
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).
LD50, oral, Rat: 7120 mg/kg (OECD TG 401).
NOAEL, inhalative, Rat: 0,058 mg/l (98 d).
NOAEL, oral, Rat: < 62,5 mg/kg (28 d) (OECD TG 422).
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat: >2000 mg/kg bw (Lit.).
LD50, oral, Rat: 2995 mg/kg bw (Lit.).
LC50, inhalative, Rat: 1,49 - 2,44 mg/L (4h) (Lit.).

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Skin corrosion/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.
May cause an allergic skin reaction.

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Mutagenicity Does not contain a relevant substance that meets the classification criteria.

Reproduction toxicity Does not contain a relevant substance that meets the classification criteria.

Carcinogenicity Does not contain a relevant substance that meets the classification criteria.

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

General remarks

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 8 / 11

SECTION 12: Ecological information**12.1 Toxicity**

Substance
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328), CAS: 25973-55-1
LC50, (96h), Brachidanio rerio: > 100 mg/l (OECD 203).
EC50, (72h), Desmodesmus subspicatus: > 10 mg/l (OECD 201).
EC50, (24h), Daphnia magna: > 100 mg/l (OECD 202).
NOEC, (72h), Pseudokirchneriella subcapitata: 0,1 mg/l.
Trimethoxyvinylsilane, CAS: 2768-02-7
LC50, (96h), Oncorhynchus mykiss: 191 mg/l.
EC50, Pseudokirchneriella subcapitata: 210 mg/l (7 d) (US-EPA).
EC50, (48h), Daphnia magna: 168,7 mg/l (92/69/EWG C.2).
EC10, Pseudomonas putida: 1000 mg/l (5 h).
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio: 597 mg/l (Lit.).
EC50, (16h), Pseudomonas putida: 67 mg/l (Lit.).
EC50, (48h), Daphnia magna: 81 mg/l (Lit.).
IC50, (72h), Algae: 8,8 mg/l (OECD 201).
NOEC, (21d), Daphnia magna: > 1 mg/l (Lit.).
NOEC, (72h), Algae: 3,1 mg/l (OECD 201).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII:UV-328 (CAS 25973-55-1)

12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 9 / 11

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
 Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 070217

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
 Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150102

SECTION 14: Transport information**14.1 UN number**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Ramsauer GmbH & Co KG
4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 10 / 11

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people not applicable

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H413 May cause long lasting harmful effects to aquatic life.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H332 Harmful if inhaled.
 H226 Flammable liquid and vapour.

Ramsauer GmbH & Co KG

4822 Bad Goisern / H. / Austria

Date printed 29.07.2021, Revision 12.02.2020

Version 08. Supersedes version: 07

Page 11 / 11

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure****Modified position**

SECTION 2 been added: Further hazards were not determined with the current level of knowledge.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 15 deleted: TRGS 510: Storage of hazardous substances in non-stationary containers

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