

Ramsauer GmbH & Co KG

4822 Bad Goisern / H.

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Version 06. Supersedes version: 05

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Hitzefest 330****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Silicon

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet**Company**Ramsauer GmbH & Co KG
Sarstein 17
4822 Bad Goisern / H. / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8205-250
Homepage www.ramsauer.at
E-mail office@ramsauer.at**Address enquiries to****Technical information**office@ramsauer.at**Safety Data Sheet**sdb@chemiebuero.de**1.4 Emergency telephone number****Advisory body**

+43 (0) 1 406 43 43 (24h)

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.

2.3 Other hazards**Human health dangers**

Contact with moisture liberates acetic acid.

Environmental hazardsDoes not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.**Other hazards**

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients**3.1 Substances**

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - <2,5	Triacetoxylethylsilane CAS: 17689-77-9, EINECS/ELINCS: 241-677-4, Reg-No.: 01-2119881778-15-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318
1 - <2,5	Oligomeric ethyl and Methylacetoxysilane GHS/CLP: Skin Corr. 1B: H314 - Eye Dam. 1: H318
1 - <2,5	Triacetoxymethylsilane CAS: 4253-34-3, EINECS/ELINCS: 224-221-9, Reg-No.: 01-2119962266-32-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
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.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Irritant effects

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

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Sulphur oxides (SO_x).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

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.

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

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.
Protect from heat/overheating.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

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

Substance
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Long-term exposure: 10 ppm, 25 mg/m ³
Short-term exposure (15-minute): 15 ppm, 37 mg/m ³
Amorphus Silica
CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
Long-term exposure: 6 mg/m ³ , total inhalable dust

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Eight hours: 10 ppm, 25 mg/m ³
Short-term (15-minute): 20 ppm, 50 mg/m ³

DNEL

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Industrial, dermal, Long-term - systemic effects, 11,39 mg/kg bw/da,
Industrial, inhalative, Acute - local effects, 32,5 mg/m ³ ,
Industrial, inhalative, Long-term - local effects, 32,5 mg/m ³ ,
Industrial, inhalative, Long-term - systemic effects, 80,33 mg/m ³ ,
general population, oral, Long-term - systemic effects, 5,7 mg/kg bw/day,
general population, dermal, Long-term - systemic effects, 5,7 mg/kg bw/day,
general population, inhalative, Long-term - local effects, 6,5 mg/m ³ ,
general population, inhalative, Long-term - systemic effects, 119,81 mg/m ³ ,
Triacetoxymethylsilane, CAS: 4253-34-3
Industrial, inhalative, Acute - local effects, 61 mg/m ³ ,
Industrial, inhalative, Long-term - local effects, 31 mg/m ³ ,
general population, inhalative, Long-term - local effects, 31 mg/m ³ ,
general population, inhalative, Acute - local effects, 61 mg/m ³ ,

PNEC

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
soil, 6,402 - 31 µg/kg soil dw,
sediment (seawater), 2,303 - 74 µg/kg sediment dw,
sediment (freshwater), 23,03 - 740 µg/kg sediment dw,
sewage treatment plants (STP), 1 - 10,637 mg/L,
seawater, 2,303 - 20 µg/L,
freshwater, 23,03 - 200 µg/L,
Triacetoxymethylsilane, CAS: 4253-34-3
soil, 190 µg/kg soil dw,

sediment (seawater), 480 µg/kg sediment dw,

sediment (freshwater), 4,8 mg/kg sediment dw,

sewage treatment plants (STP), 6.9 mg/L,
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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
Hand protection	0,4 mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
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 E (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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	pasty
Color	brown
Odor	acetic
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 applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,204 (DIN 52451)
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	150 - 180
Particle characteristics	No information available.

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

Contact with moisture liberates acetic acid.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

Water

10.6 Hazardous decomposition products

In the case of heating (150-180°C) following modest (decomposition) products may occur:
Formaldehyde.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Product
ATE-mix, oral, Rat, >2000 mg/kg bw,
Substance
Triacetoxylethylsilane, CAS: 17689-77-9
LD50, oral, Rat, 1460 mg/kg bw, OECD 401,
Triacetoxymethylsilane, CAS: 4253-34-3
LD50, oral, Rat, 1600 mg/kg, OECD 401,

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

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

Serious eye damage/irritation Based on available data, the classification criteria are not met.
Non-irritant.
No classification due to toxicological investigations.

Substance
Triacetoxymethylsilane, CAS: 4253-34-3
Rabbit, OECD 404, corrosive,

Skin corrosion/irritation Based on available data, the classification criteria are not met.
Non-irritant.
No classification due to toxicological investigations.

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Rabbit, OECD 405, corrosive,

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Mutagenicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Ames-test, negative,
Triacetoxymethylsilane, CAS: 4253-34-3
Ames-test, negative,

Reproduction toxicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
NOAEL, oral, Rat, 3048,62 mg/kg bw/day, OECD 422,

Carcinogenicity Based on available data, the classification criteria are not met.
Does not contain a relevant substance that meets the classification criteria.

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

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

General remarks

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.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
LC50, (96h), Danio rerio, 251 mg/l,
EC50, (48h), Daphnia magna, 62 mg/l,
IC50, (72h), Pseudokirchneriella subcapitata, 73 mg/l,
Triacetoxymethylsilane, CAS: 4253-34-3
LC50, (96h), fish, 79 - 500 mg/L,
EC50, (72h), Algae, 24,41 - 1562,5 mg/L,
EC50, (48h), Invertebrates, 65 - 500 mg/L,

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

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 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.

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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

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

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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 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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

- Observe employment restrictions for people no

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.

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
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 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
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 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 2 been added: Contains no ingredients with endocrine-disrupting properties.

SECTION 5 been added: Risk of formation of toxic pyrolysis products.

SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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

SECTION 11 been added: Based on available data, the classification criteria are not met.

SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.



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