

Ramsauer GmbH & Co KG  
4822 Bad Goisern / H.

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

### 1.1 Product identifier

**Spray Hybrid 647**

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

#### 1.2.1 Relevant uses

Sealing material

#### 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  
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Homepage [www.ramsauer.at](http://www.ramsauer.at)  
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#### Address enquiries to

#### Technical information

[office@ramsauer.at](mailto:office@ramsauer.at)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 1.4 Emergency telephone number

#### Advisory body

Call NHS 111 or a doctor

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Eye Irrit. 2: H319 Causes serious eye irritation.

### 2.2 Label elements

#### Hazard pictograms



The product is required to be labelled in accordance with regulation CLP.

#### Signal word

WARNING

#### Hazard statements

H319 Causes serious eye irritation.

#### Precautionary statements

P280 Wear eye protection.  
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.

### 2.3 Other hazards

#### Human health dangers

Contact with moisture liberates Methanol.

#### Environmental hazards

Does 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 - <3	3-(Trimethoxysilyl)propylamine CAS: 13822-56-5, EINECS/ELINCS: 237-511-5, Reg-No.: 01-2119510159-45-XXXX GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315
0,1 - <0,25	Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate CAS: 52829-07-9, EINECS/ELINCS: 258-207-9, Reg-No.: 01-2119537297-32-XXXX GHS/CLP: Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411

#### 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	In case of contact with skin wash off immediately 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

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. Foam. Dry powder. Water spray jet.
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.

## 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.

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## **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.

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 in a cool place. Store in a dry place.

Protect from heat/overheating.

## **7.3 Specific end use(s)**

See product use, SECTION 1.2

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## 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 <sup>3</sup> , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m <sup>3</sup>
Limestone
CAS: 1317-65-3, EINECS/ELINCS: 215-279-6
Long-term exposure: 10 mg/m <sup>3</sup> , inhalable dust; respirable dust: 4 mg/m <sup>3</sup>

#### 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 <sup>3</sup> , H

#### DNEL

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Industrial, inhalative, Acute - systemic effects, 260 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 1 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 7,1 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 1,7 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 50 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 8 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0,5 mg/kg bw/day
Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9
Industrial, dermal, Long-term - systemic effects, 1,6 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 2,82 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 2,82 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 400 µg/kg bw/day
general population, dermal, Long-term - systemic effects, 800 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 690 µg/m <sup>3</sup>

#### PNEC

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
soil, 45 µg/kg soil dw
sediment (seawater), 120 µg/kg sediment dw
sediment (freshwater), 1,2 mg/kg sediment dw
sewage treatment plants (STP), 13 mg/L
seawater, 33 µg/L
freshwater, 330 µg/L
Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9
sediment (seawater), 2,9 mg/kg

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sediment (freshwater), 29 mg/kg

sewage treatment plants (STP), 1 mg/L

seawater, 1,88 µg/L

freshwater, 18,8 µg/L

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	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.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale vapours.
<b>Respiratory protection</b>	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)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	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	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
Flash point [°C]	not determined
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/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	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]	not determined
Particle characteristics	No information available.

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7  
Contact with moisture.

### 10.5 Incompatible materials

Strong oxidizing agent.

#### **10.6 Hazardous decomposition products**

Contact with moisture liberates Methanol.

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## SECTION 11: Toxicological information

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

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

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, oral, Rat, 2,97 mL/kg bw, OECD 401
Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9
LD50, oral, Rat, > 2000 mg/kg

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

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, dermal, Rabbit, 11,3 mL/kg bw, OECD 402
Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9
LD50, dermal, Rat, > 2000 mg/kg

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

Substance
Bis-(2,2,6,6,-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9
LC50, inhalative, Rat, 7,7 mg/l (4 h)

**Serious eye damage/irritation** Irritant

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Eye, Rabbit, OECD 405, corrosive

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
dermal, Rabbit, OECD 404, irritant

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
dermal, Guinea pig, OECD 406, non-sensitizing

**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.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 408, adverse effect observed

**Mutagenicity** This product contains one or more substances of Muta. 2.  
(CAS: 22673-19-4)

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

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in vitro, OECD 471, negativ

**Reproduction toxicity**

This product contains one or more substances of categorie Repr. 1B (CLP).  
(CAS: 22673-19-4)

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed

**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.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

**Other information**

none

**SECTION 12: Ecological information**

**12.1 Toxicity**

Substance

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5

LC50, (96h), fish, 934 mg/L

EC50, (72h), Algae, >603 - 1000 mg/L

EC50, (48h), Daphnia magna, 331 mg/L

Bis-(2,2,6,6-tetramethyl-4-piperidiny) sebacate, CAS: 52829-07-9

LC50, (48h), Invertebrates, 8,58 mg/L

LC50, (96h), fish, 4.4 mg/L

EC50, (72h), Algae, 705 - 1900 µg/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**

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

**12.6 Endocrine disrupting properties**

Contains no ingredients with endocrine-disrupting properties.

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## 12.7 Other adverse effects

Ecological data of complete product are not available.

## 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 or ID 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 Maritime transport in bulk according to IMO instruments

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 (2022)

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

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H411 Toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.

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## 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

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

### Modified position

none

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