

SUMOGRIP: ADHESIVE & SEALANT

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: Sumogrip: Adhesive & Sealant (white)
Product code: 03601
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2. HAZARDS IDENTIFICATION

Main hazards: - No hazard classification according to Directive 67/548/EEC and 1999/45/EC

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate	52829-07-9 258-207-9	0.1 – 1.0	Xi;N	36-51/53 (1)
trimethoxyvinylsilane	2768-02-7 220-449-8	1 - 20	Xn	10-20-65 (1)
dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 245-152-0	0.1 – 1.0	Xn;N	36/38-48/22-51/53 (1)

(1) For R-phrases in full: see heading 16

4. FIRST AID MEASURES

- Skin contact:** - Rinse immediately with plenty of water
- If irritation persists: seek medical advice
- Eye contact:** - Rinse immediately with plenty of water
- Seek medical advice
- Ingestion:** - Never give water to an unconscious person
- Do not induce vomiting
- Seek medical advice
- Inhalation:** - Remove the victim into fresh air
- Seek medical advice

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** - Polyvalent foam
- Dry chemical powder
- Carbon dioxide
- Unsuitable extinguishing media:** - None
- Exposure hazards:** - Not easily combustible
- On burning: release of carbon monoxide and carbon dioxide
- Protection of fire-fighters:** - Heat/fire exposure: compressed air/oxygen apparatus
- Instructions:** - No specific fire fighting instructions required

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions: - Refer to section 8 of SDS for personal protection details

Environmental precautions: - Use appropriate containment to avoid environmental contamination

Clean-up procedures: - Cover the solid spill with sand/kieselguhr
- Scoop solid spill into closing containers
- Clean contaminated surfaces with an excess of water

7. HANDLING AND STORAGE

Handling: - Observe normal hygiene standards

Storage conditions: - Keep container tightly closed
- Store in a dry area
Storage temperature : room temperature
Quantity limit : N.D. kg
Storage life : 365 days

Suitable packaging: - Plastic

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:	TLV-TWA	:	not listed
	TLV-STEL	:	not listed
	TLV-Ceiling	:	not listed
	OES-LTEL	:	not listed
	OES-STEL	:	not listed
	MEL-LTEL	:	not listed
	MEL-STEL	:	not listed
	MAK	:	not listed
	TRK	:	not listed
	MAC-TGG 8 h	:	not listed
	MAC-TGG 15 min.	:	not listed
	MAC-Ceiling	:	not listed
	VME-8 h	:	not listed
	VLE-15 min.	:	not listed
	GWBB-8 h	:	not listed
	GWK-15 min.	:	not listed
	Momentary value	:	not listed
	EC	:	not listed
	EC-STEL	:	not listed

Exposure Controls: - Use in well ventilated area

Respiratory Protection: - In case of insufficient ventilation: respiratory protection with filter type A

Eye protection: - Safety glasses

Skin protection: - Suitable protective clothing and gloves

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9. PHYSICAL AND CHEMICAL PROPERTIES

State:	- Paste
Colour:	- White
Odour:	- Almost odourless
Evaporation rate:	- Ratio to butyl: N.D. - Ratio to ether: N.D.
Flash Point:	- N.D. °C
Solubility in water:	- Insoluble
Soluble in:	- Organic Solvents
Viscosity (at 20°C):	- N.D. Pa.S
pH Value:	- N.D.
Explosion limits:	- N.D. Vol%
Boiling point/range°C:	- N.D. °C
Melting point/melting range:	- N.D. °C
Saturation Concentration:	- N.D. g/m ³
Autoflammability°C:	- N.D. °C
Vapour pressure:	- At 20°C: N.D. hPa - At 50°C: N.D. hPa
Relative density (at 20°C):	- 1.7
Partition coefficient n-octanol/ water:	- N.D.

10. STABILITY AND REACTIVITY

Stability:	- Stable under normal conditions
Materials to avoid:	- None
Haz. decomp. products:	- On burning: release of carbon monoxide, carbon dioxide and formation of small quantities of hydrogen chloride and nitrous vapours

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	- bis(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE:
	LD50 oral rat : 3700 mg/kg
	LD50 dermal rat : > 2000 mg/kg
	LD50 dermal rabbit : > 3100 mg/kg
	LC50 inhalation rat : N.D. mg/l/4 h
	LC50 inhalation rat : N.D. ppm/4 h
	- TRIMETHOXYVINYLSILANE:
	LD50 oral rat : 7120 mg/kg
	LD50 dermal rat : N.D. mg/kg
	LD50 dermal rabbit : 3434 mg/kg
	LC50 inhalation rat : 16 mg/l/4 h
	LC50 inhalation rat : 2714 ppm/4 h
Chronic toxicity:	- EC carc. cat. : not listed
	- EC muta. cat. : not listed
	- EC repr. cat. : not listed
	- Carcinogenicity (TLV) : not listed
	- Carcinogenicity (MAC) : not listed
	- Carcinogenicity (VME) : not listed
	- Carcinogenicity (GWBB) : not listed
	- Carcinogenicity (MAK) : not listed
	- Mutagenicity (MAK) : not listed
	- Teratogenicity (MAK) : not listed
	- IARC classification : not listed

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- Routes of exposure:** - Ingestion inhalation, eye and skin
Acute effects/symptoms: - Unlikely to cause harmful effects
Chronic effects: - Unlikely to cause harmful effects

12. ECOLOGICAL INFORMATION

- Persistence and degradability:**
- biodegradation BOD5 : N.D. % ThOD
 - water : No data available
 - soil : T ½ N.D. days
- Bioaccumulative potential:**
- log P_{ow} : N.D.
 - BCF : N.D.
- Other adverse effects:**
- WGK : 1 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
 - Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
 - Greenhouse effect : No data available
 - Effect on waste water purification : No data available
- Mobility:**
- Volatile organic compounds (VOC): 2 %
 - Insoluble in water
 - Substance sinks in water
 - For other physicochemical properties see section 9
- bis(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE:**
- LC50 (96 h) : 4.4 mg/l (BRACHYDANIO RERIO)
 - EC50 (24 h) : 17 mg/l (DAPHNIA SP.)
 - EC50 (72 h) : 1.9 mg/l (SCENEDESMUS SUBSPICATUS)
- TRIMETHOXYVINYL-SILANE:**
- LC50 (96 h) : >= 100 mg/l (BRACHYDANIO RERIO)
 - EC50 (48 h) : 168.7 mg/l (DAPHNIA MAGNA)

13. DISPOSAL CONSIDERATIONS

- Disposal operations:** - Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)
- Disposal Methods:** - No data available
- Packaging:** - Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 02 (plastic packaging)

14. TRANSPORT INFORMATION

- Classification of the substance in compliance with UN Recommendations:**
- UN Number: -
 - Class: NOT SUBJECT
 - Sub Risk:
 - Packing:
 - Proper Shipping Name:
- ADR (transport by road):**
- Class: NOT SUBJECT
 - Packing:
 - Danger Label tanks:
 - Danger Label Packages:
- RID (transport by rail):**
- Class: NOT SUBJECT
 - Packing:
 - Danger Label tanks:
 - Danger Label Packages:

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ADNR (transport by inland waterways)::	- Class: - Packing: - Danger Label tanks: - Danger Label Packages:	NOT SUBJECT
IMDG (maritime transport):	- Class: - Sub Risks: - Packing: - MFAG: - EMS: - Marine Pollutant:	NOT SUBJECT
ICAO (air transport):	- Class: - Sub Risks: - Packing: - Packaging instructions for passenger aircraft: - Packaging instructions for cargo aircraft:	NOT SUBJECT
Special instructions in connection with transport:	- Not restricted for any mode of international transport	

15. REGULATORY INFORMATION

Labelling in accordance with EC directives 67/548/EEC and 1999/45/EC
 LABELLING NOT REQUIRED ACCORDING TO AVAILABLE INFORMATION

12. OTHER INFORMATION

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
 N.D. = NOT DETERMINED
 * = INTERNAL CLASSIFICATION

Exposure limits:

TLV	:	Threshold Limit Value - ACGIH US 2004
OES	:	Occupational Exposure Standards - United Kingdom 2004
MEL	:	Maximum Exposure Limits - United Kingdom 1999
MAK	:	Maximale Arbeitsplatzkonzentrationen - Germany 2001
TRK	:	Technische Richtkonzentrationen - Germany 2001
MAC	:	Maximale aanvaarde concentratie - the Netherlands 2004
VME	:	Valeurs limites de Moyenne d'Exposition - France 1999
VLE	:	Valeurs limites d'Exposition à court terme - France 1999
GWBB	:	Grenswaarde beroepsmatige blootstelling - Belgium 1998
GWK	:	Grenswaarde kortstondige blootstelling - Belgium 1998
EC	:	Indicative occupational exposure limit values - directive 2000/39/EC

I : Inhalable fraction = T : Total dust = E : Einatembarer Aerosolanteil
 R : Respirable fraction = A : Alveolengängiger Aerosolanteil/Alveolar dust
 C : Ceiling limit

a:	aerosol		r:	rook/Rauch	(fume)
d:	damp	(vapour)	st:	stof/Staub	(dust)
du:	dust		ve:	vezel	(fibre)
fa:	Faser	(fibre)	va:	vapour	
fi:	fibre		om:	oil mist	
fu:	fume		on:	olienevel/Ölnebel	(oil mist)
p:	poussière	(dust)	part:	particles	

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2002

Full text of any R-phrases referred to under heading 2:

R10	:	Flammable
R20	:	Harmful by inhalation
R36	:	Irritating to eyes
R36/38	:	Irritating to eyes and skin
48/22	:	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R51/53	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	:	Harmful: may cause lung damage if swallowed