

Universal Adhesive 49A

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name : Universal Adhesive 49A

1.2 Use of the substance/preparation:

Adhesive

1.3 Company/undertaking identification:

SODAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
Tel: +32 14 42 42 31
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1.4 Emergency telephone:

+32 14 58 45 45 (24/24 h)
Information centre on dangerous goods (BIG)
Technische Schoolstraat 43 A, B-2440 Geel, Belgium

2. Hazards identification

- Highly flammable
- Irritating to skin
- Vapours may cause drowsiness and dizziness
- Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment

3. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. (%)	Hazards (R-phrases)	Hazard symbol
low boiling point hydrogen treated naphtha (Conc. benzene < 0.1%)	64742-49-0 265-151-9	2.5 - <25	11-38-51/53-65-67 (1) (Labelling in compliance with CONCAWE)	F;Xn;N
n-hexane	110-54-3 203-777-6	0.1 - <1	11-38-48/20-51/53- 62-65-67 (1)(2)	F;Xn;N
acetone	67-64-1 200-662-2	1 - <5	11-36-66-67 (1)(2)	F;Xi

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

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

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4. First aid measures

- 4.1 After inhalation:**
- Remove the victim into fresh air
 - Respiratory difficulties: consult a doctor/medical service
- 4.2 Skin contact:**
- Wash with water and soap
 - Take victim to a doctor if irritation persists
- 4.3 Eye contact:**
- Rinse with water
 - Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:**
- Rinse mouth with water
 - If you feel unwell: consult a doctor/medical service

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Water spray
 - Polyvalent foam
 - ABC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- No data available
- 5.3 Special exposure hazards:**
- On burning: release of carbon monoxide and carbon dioxide
 - Gas/vapour spreads at floor level: ignition hazard
 - Gas/vapour flammable with air within explosion limits
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Take account of environmentally hazardous firefighting water
 - Use firefighting water moderately and contain it
- 5.5 Special protective equipment for fire-fighters:**
- Heat/fire exposure: compressed air/oxygen apparatus

6. Accidental release measures

- 6.1 Personal precautions:**
- See heading 8.2/13
- 6.2 Environmental precautions:**
- Use appropriate containment to avoid environmental contamination
- 6.3 Methods for cleaning up:**
- Take up liquid spill into absorbent material e.g.: sand/earth
 - Shovel absorbed substance in closing drums
 - Carefully collect the spill/leftovers
 - Take collected spill to manufacturer/competent authority
 - Clean contaminated surfaces with a soap solution
 - Wash clothing and equipment after handling

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7. Handling and storage

7.1 Handling:

- Avoid prolonged and repeated contact with skin
- Use spark-/explosionproof appliances and lighting system
- Do not discharge the waste into the drain
- Remove contaminated clothing immediately
- Clean contaminated clothing

7.2 Storage:

- Keep container tightly closed
- Keep away from: heat sources, ignition sources

Storage temperature : 20 °C
Quantity limit : N.D. kg
Storage life : 365 days
Materials for packaging :
- suitable : tin, polyamide

7.3 Specific use(s):

- See information supplied by the manufacturer for the identified use(s)

8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

n-HEXANE:

TLV-TWA	:		mg/m ³	50	ppm
TLV-STEL	:		mg/m ³	-	ppm
TLV-Ceiling	:		mg/m ³		ppm
WEL-LTEL	:	72	mg/m ³	20	ppm
WEL-STEL	:	-	mg/m ³	-	ppm
TRGS 900	:	180	mg/m ³	50	ppm
MAK	:	180	mg/m ³	50	ppm
MAC-TGG 8 h	:	72	mg/m ³		
MAC-TGG 15 min.	:	144	mg/m ³		
MAC-Ceiling	:		mg/m ³		
VME-8 h	:	170	mg/m ³	50	ppm
VLE-15 min.	:	-	mg/m ³	-	ppm
GWBB-8 h	:	72	mg/m ³	20	ppm
GWK-15 min.	:	-	mg/m ³	-	ppm
Momentary value	:		mg/m ³		ppm
EC	:	72	mg/m ³	20	ppm
EC-STEL	:	-	mg/m ³	-	ppm

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ACETONE:

TLV-TWA	:		mg/m^3	500		
TLV-STEL	:		mg/m^3	750		ppm
TLV-Ceiling	:		mg/m^3			ppm
WEL-LTEL	:	1210	mg/m^3	500		ppm
WEL-STEL	:	3620	mg/m^3	1500		ppm
TRGS 900	:	1200	mg/m^3	500		ppm
MAK	:	1200	mg/m^3	500		ppm
MAC-TGG 8 h	:	1210	mg/m^3			
MAC-TGG 15 min.	:	2420	mg/m^3			
MAC-Ceiling	:		mg/m^3			
VME-8 h	:	1210	mg/m^3	500		ppm
VLE-15 min.	:	-	mg/m^3	-		ppm
GWBB-8 h	:	1210	mg/m^3	500		ppm
GWK-15 min.	:	2420	mg/m^3	1000		ppm
Momentary value	:		mg/m^3			ppm
EC	:	1210	mg/m^3	500		ppm
EC-STEL	:	-	mg/m^3	-		ppm

8.1.2 Sampling methods:

- Petroleum Distillate (Naphthas)		NIOSH 1550
- Petroleum Distillates (Naphtha)		OSHA 48
- Acetone (ketones 1)		NIOSH 1300
- Acetone		OSHA 69
- n-Hexane (Hydrocarbons, BP36 to 126C)		NIOSH 1500
- n-Hexane		OSHA 7

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection:

- Gas mask with filter type A at conc. in air > exposure limit

b) Hand protection:

- Gloves

c) Eye protection:

- Safety glasses

d) Skin protection:

- Protective clothing

8.2.2 Environmental exposure controls: see heading 6.2, 6.3 and 13

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9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Viscous
Odour	: Characteristic
Colour	: Yellow

9.2 Important health, safety and environmental information:

pH value (at 20°C)	: N.D.	
Boiling point/boiling range	: N.D.	°C
Flashpoint/flammability	: < 23	°C
Explosion limits (explosive properties)	: N.D.	Vol%
Oxidising properties	: N.D.	
Vapour pressure (at 20°C)	: N.D.	hPa
Vapour pressure (at 50°C)	: < 1100	hPa
Relative density (at 20°C)	: 1.28	
Water solubility	: Insoluble	
Soluble in	: No data available	
Relative vapour density	: N.D.	
Viscosity (at °C)	: N.D.	Pa.s
Flow time Ø(6 mm) (according to ISO 2431)	: > 100	s
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: N.D.	°C
Auto-ignition point	: N.D.	°C
Saturation concentration	: N.D.	g/m ³
Specific conductivity	: N.D.	pS/m

10. Stability and reactivity

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, ignition sources

10.3 Hazardous decomposition products:

- On burning: release of carbon monoxide and carbon dioxide

11. Toxicological information

11.1 Acute toxicity:

n-HEXANE:

LD50 oral rat	: 28710	mg/kg
LD50 dermal rabbit	: > 2000	mg/kg
LC50 inhalation rat	: > 20	mg/l/4 h
LC50 inhalation rat	: > 50000	ppm/4 h

ACETONE:

LD50 oral rat	: 5800	mg/kg
LD50 dermal rabbit	: 20000	mg/kg
LC50 inhalation rat	: 71	mg/l/4 h
LC50 inhalation rat	: 30000	ppm/4 h

11.2 Chronic toxicity:

n-HEXANE:

EC repr. cat.	: 3
Teratogenicity (MAK)	: Group C

ACETONE:

Carcinogenicity (TLV)	: A4
Teratogenicity (MAK)	: Group -

11.3 Routes of exposure: ingestion, inhalation, eye and skin

11.4 Acute effects/symptoms:

AFTER INHALATION:

EXPOSURE TO HIGH CONCENTRATIONS:
- Narcosis

ON CONTINUOUS EXPOSURE/CONTACT:
- Slight irritation

AFTER SKIN CONTACT:

- Tingling/irritation of the skin

ON CONTINUOUS EXPOSURE/CONTACT:
- Dry skin

AFTER EYE CONTACT:

- Slight irritation

11.5 Chronic effects:

- Contains substance of group C (MAK-Schwangerschaftsgruppe)
- Not listed in carcinogenicity class (IARC,EC,TLV,MAK)
- Not listed in mutagenicity class (EC,MAK)

ON CONTINUOUS EXPOSURE/CONTACT:
- Skin rash/inflammation

12. Ecological information

12.1 Ecotoxicity:

n-HEXANE:

- LC50 (96 h) : 113 mg/l (TILAPIA MOSAMBICA)
- EC50 (48 h) : 2.1 mg/l (DAPHNIA MAGNA)
- EC50 : 114 mg/l (CHLOROPHYTA)

ACETONE:

- LC50 (96 h) : 5540 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 39 mg/l (DAPHNIA MAGNA)
- EC50 (96 h) : 7000 mg/l (SELENASTRUM CAPRICORNUTUM)

- **Effect on waste water purification** : No data available

12.2 Mobility:

- **Volatile organic compounds (VOC):** 24%
- Insoluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- **Biodegradation BOD₅** : N.D. % ThOD
- **Water** : No data available
- **Soil** : T ½ N.D. days

12.4 Bioaccumulative potential:

- **log P_{ow}** : N.D.
- **BCF** : N.D.

12.5 Results of PBT assessment:

- Not applicable, on the basis of the available data.

12.6 Other adverse effects:

- **WGK** : 2 (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

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 09* (waste adhesives and sealants containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Incinerate under surveillance
- Do not discharge into drains or the environment

13.3 Packaging:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

14. Transport information

14.1 Classification of the substance in compliance with UN Recommendations

UN number : 1133
 CLASS : 3
 SUB RISKS : -
 PACKING GROUP : III

14.2 ADR (transport by road)

CLASS : 3
 PACKING GROUP : III
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Adhesives

14.3 RID (transport by rail)

CLASS : 3
 PACKING GROUP : III
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Adhesives

14.4 ADNR (inland navigation)

CLASS : 3
 PACKING GROUP : III
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3

14.5 IMDG (maritime transport)

CLASS : 3
 SUB RISKS : -
 PACKING GROUP : III
 MFAG : -
 EMS : F-E, S-D
 MARINE POLLUTANT : -

14.6 ICAO (air freight)

CLASS : 3
 SUB RISKS : -
 PACKING GROUP : III
 PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 309/Y309
 PACKING INSTRUCTIONS CARGO AIRCRAFT : 310

14.7 Special precautions

viscous liquid with a flashpoint below 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADR, RID and ADNR, in 2.3.2.3 of IMDG and in 3.3.3.1 of ICAO

14.8 Limited quantities (LQ)

When substances and their packaging meet the conditions established by ADR/RID/ADNR in chapter 3.4, only the following prescriptions shall be complied with:
 each package shall display a diamond-shaped figure with the following inscription:
 - 'UN 1133'
 or, in the case of different goods with different identification numbers within a single package:
 - the letters 'LQ'

15. Regulatory information

15.1 EU Legislation:



Highly flammable



Irritant

R38	:	Irritating to skin
R52/53	:	Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment
R67	:	Vapours may cause drowsiness and dizziness
S(02)	:	(Keep out of reach of children)
S(46)	:	(If swallowed, seek medical advice immediately and show this container or label)
S61	:	Avoid release to the environment. Refer to special instructions/safety data sheets.

15.2 National provisions:

the Netherlands:

Waterbezwaarlijkheid: 8

Germany:

Wassergefährdungsklasse

WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

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16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as 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 (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV : Threshold Limit Value - ACGIH US
WEL : Workplace Exposure Limits - United Kingdom
TRGS 900 : Technische Regel für Gefahrstoffe 900 (Arbeitsplatzgrenzwerte) - Germany
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
MAC : Maximale aanvaarde concentratie - the Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
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

Full text of any R-phrases referred to under headings 2 and 3:

R11 : Highly flammable
R36 : Irritating to eyes
R38 : Irritating to skin
R48/20 : Harmful: danger of serious damage to health by prolonged exposure through inhalation
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62 : Possible risk of impaired fertility
R65 : Harmful: may cause lung damage if swallowed
R66 : Repeated exposure may cause skin dryness or cracking
R67 : Vapours may cause drowsiness and dizziness