

Soudal Universal Adhesive 48A**1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:**

Product name : 3635

1.2 Use of the substance/preparation:

Adhesive

1.3 Company/undertaking identification:

SODAL N.V.
Everdongenlaan 18-20
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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
- 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
ethyl acetate	141-78-6 205-500-4	1 - <15	11-36-66-67 (1)	F;Xi
butanone	78-93-3 201-159-0	1 - <15	11-36-66-67 (1)	F;Xi
low boiling point hydrogen treated naphtha (conc. benzene < 0.1%)	64742-49-0 265-151-9	1 - <20	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)	F;Xn;N

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

(2) Substance with a Community workplace exposure limit

(3) PBT-substance

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1/10

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4. First aid measures

- 4.1 After inhalation:**
- Remove the victim into fresh air
 - Seek medical advice
- 4.2 Skin contact:**
- Rinse immediately with plenty of water
 - If irritation persists: seek medical advice
- 4.3 Eye contact:**
- Rinse immediately with plenty of water
 - Seek medical advice
- 4.4 After ingestion:**
- Never give water to an unconscious person
 - Do not induce vomiting
 - Seek medical advice

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:**
- Polyvalent foam
 - Alcohol-resistant foam
 - ABC powder
 - Carbon dioxide
- 5.2 Unsuitable extinguishing media:**
- None
- 5.3 Special exposure hazards:**
- Gas/vapour spreads at floor level: ignition hazard
 - Gas/vapour flammable with air within explosion limits
 - On burning: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide
- 5.4 Instructions:**
- Cool closed containers with water if they are exposed to the fire
 - Dilute toxic gases with water spray
 - Take account of environmentally hazardous firefighting water
- 5.5 Special protective equipment for fire-fighters:**
- Heat/fire exposure: compressed air/oxygen apparatus
 - Protective clothing for exposure to chemicals

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
 - Clean contaminated surfaces with a soap solution
 - Take collected spill to manufacturer/competent authority
 - Wash clothing and equipment after handling

Soudal Universal Adhesive 48A

7. Handling and storage

7.1 Handling:

- Observe strict hygiene
- Avoid prolonged and repeated contact with skin
- Do not discharge the waste into the drain
- In case of insufficient ventilation:
Use spark-/explosionproof appliances and lighting system

7.2 Storage:

- Keep container tightly closed
- Store in a dark area
- Ventilation at floor level

- Keep away from: heat sources, ignition sources, oxidizing agents

Storage temperature : Roomtemperature
Quantity limit : N.D. kg
Storage life : 365 days
Materials for packaging :
- suitable : tin

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:

ETHYL ACETATE:

TLV-TWA	:	mg/m ³	400	ppm
TLV-STEL	:	mg/m ³	-	ppm
TLV-Ceiling	:	mg/m ³		ppm
WEL-LTEL	:	mg/m ³	200	ppm
WEL-STEL	:	mg/m ³	400	ppm
TRGS 900	:	mg/m ³	400	ppm
MAK	:	mg/m ³	400	ppm
MAC-TGG 8 h	:	mg/m ³		
MAC-TGG 15 min.	:	mg/m ³		
MAC-Ceiling	:	mg/m ³		
VME-8 h	:	mg/m ³	400	ppm
VLE-15 min.	:	mg/m ³	-	ppm
GWBB-8 h	:	mg/m ³	400	ppm
GWK-15 min.	:	mg/m ³	-	ppm
Momentary value	:	mg/m ³		ppm

Soudal Universal Adhesive 48A

BUTANONE :

TLV-TWA	:		mg/m ³	200	ppm
TLV-STEL	:		mg/m ³	300	ppm
TLV-Ceiling	:		mg/m ³		ppm
WEL-LTEL	:	600	mg/m ³	200	ppm
WEL-STEL	:	899	mg/m ³	300	ppm
TRGS 900	:	600	mg/m ³	200	ppm
MAK	:	600	mg/m ³	200	ppm
MAC-TGG 8 h	:	590	mg/m ³		
MAC-TGG 15 min.	:	900	mg/m ³		
MAC-Ceiling	:		mg/m ³		
VME-8 h	:	600	mg/m ³	200	ppm
VLE-15 min.	:	800	mg/m ³	300	ppm
GWBB-8 h	:	600	mg/m ³	200	ppm
GWK-15 min.	:	900	mg/m ³	300	ppm
Momentary value	:		mg/m ³		ppm
EC	:	600	mg/m ³	200	ppm
EC-STEL	:	900	mg/m ³	300	ppm

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

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- 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

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C) : Viscous
Odour : Characteristic
Colour : Variable in colour

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) : 1.22
Water solubility : Insoluble
Soluble in : Organic solvents
Relative vapour density : N.D.
Viscosity (at 20°C) : N.D. Pa.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/m³
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, oxidizing agents

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours: nitrous vapours, carbon monoxide and carbon dioxide

11. Toxicological information

11.1 Acute toxicity:

ETHYL ACETATE:

LD50 oral rat	: 5620	mg/kg
LD50 dermal rabbit	: > 18000	mg/kg

BUTANONE:

LD50 oral rat	: 2737	mg/kg
LD50 dermal rabbit	: 6480	mg/kg
LC50 inhalation rat	: 34	mg/l/4 h
LC50 inhalation rat	: 11300	ppm/4 h

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

11.2 Chronic toxicity:

ETHYL ACETATE:

Teratogenicity (MAK) : Group C

BUTANONE:

Teratogenicity (MAK) : Group C

n-HEXANE:

Teratogenicity (MAK) : Group C

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

11.4 Acute effects/symptoms:

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS:

- CNS depression
- Dizziness
- Narcosis
- Mental confusion

ON CONTINUOUS EXPOSURE/CONTACT:

- Slight irritation

AFTER SKIN CONTACT:

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)

12. Ecological information

12.1 Ecotoxicity:

ETHYL ACETATE:

- LC50 (96 h) : 454.7 mg/l (SALMO GAIRDNERI/ ONCORHYNCHUS MYKISS)
- EC50 (48 h) : 154 mg/l (DAPHNIA MAGNA)
- EC50 (48 h) : 3300 mg/l (SCENEDESMUS SUBSPICATUS)

BUTANONE:

- LC50 (96 h) : 3200 mg/l (PIMEPHALES PROMELAS)
- EC50 (48 h) : 5091 mg/l (DAPHNIA MAGNA)
- EC50 (72 h) : 120 mg/l (ALGAE)

n-HEXANE:

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

- Effect on waste water purification : No data available

12.2 Mobility:

- Volatile organic compounds (VOC): 36%
- 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 $\frac{1}{2}$ N.D. days

12.4 Bioaccumulative potential:

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

12.5 Results of PBT assessment:

- No data available

12.6 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

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 : III

14.2 ADR (transport by road)

CLASS : 3
 PACKING : III
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Adhesives, Special provision 640H

14.3 RID (transport by rail)

CLASS : 3
 PACKING : III
 CLASSIFICATION CODE : F1
 DANGER LABEL TANKS : 3
 DANGER LABEL PACKAGES : 3
 PROPER SHIPPING NAME :
 Adhesives, Special provision 640H

14.4 ADNR (inland navigation)

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

14.5 IMDG (maritime transport)

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

14.6 ICAO (air freight)

CLASS : 3
 SUB RISKS : -
 PACKING : 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:

Labelling in accordance with directives 67/548/EEC and 1999/45/EC



Highly flammable

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:
WGK : 1 (classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)

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 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 (NFPA)

PBT-substances = persistent, bioaccumulative and toxic substances

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA
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