Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)

Trade name :	Ankertros Acryl PU Lak Blank		
Revision date :	25.06.2015	**Version (Revision) :**	1.0.1 (1.0.0)
Print date :	25-06-2015		

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

1.1 Product identifier
Ankertros Acryl PU Lak Blank (16-0266-000)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Paint/paint-related material for industrial/professional use.

1.3 Details of the supplier of the safety data sheet
Supplier (manufacturer/importer/only representative/downstream user/distributor)

Anker Stuy Verven B.V.

Street : Hellingwal 1

Postal code/city : NL - 8407 EM Terwispel

Telephone : +31 513 - 46 50 00

Telefax : +31 513 - 46 50 30

Information contact : info@ankerstuy.nl

1.4 Emergency telephone number
Nationaal Vergiftigingen Informatie Centrum (NVIC): +31 30 - 274 88 88 (Office hours 08:00 - 16:30 GMT +1). Outside office hours: call a Poison Center or doctor/physician.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures

EUH210 Safety data sheet available on request.

2.3 Other hazards
None

SECTION 3: Composition / information on ingredients

3.2 Mixtures
Hazardous ingredients

BUTYL CELLOSOLVE ; REACH registration No. : 01-2119475108-36 ; EC No. : 203-905-0; CAS No. : 111-76-2

Weight fraction : 2,5 - 10 %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Additional information

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation
Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

In case of skin contact
Change contaminated, saturated clothing. Clean with detergents. Avoid solvent cleaners.

After eye contact
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
No information available.

4.3 Indication of any immediate medical attention and special treatment needed
None

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Alcohol resistant foam; Carbon dioxide (CO2); Extinguishing powder; Sand; Water mist;

Unsuitable extinguishing media
Strong water jet;

5.2 Special hazards arising from the substance or mixture
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters
Special protective equipment for firefighters
Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses. Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Protective equipment
Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment.

6.2 Environmental precautions
Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up
Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections
Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Avoid contact with skin, eyes and clothes. Do not breathe gas/vapour/aerosol. When using do not eat, drink, smoke, sniff. Never use pressure to empty container. Keep/Store only in original container. Do not allow to enter ground-water, surface water or drains, even not in small quantities. See chapter 8 of the safety data sheet (Personal protection equipment) Comply with the health and safety at work laws.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Remove all sources of ignition.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

BUTYL CELLOSOLVE ; CAS No. : 111-76-2

Limit value type (country of origin) :	STEL (EC)
Limit value :	50 ppm / 246 mg/m^3
Remark :	H
Version :	08-06-2000
Limit value type (country of origin) :	TWA (EC)
Limit value :	20 ppm / 98 mg/m^3
Remark :	H
Version :	08-06-2000
Limit value type (country of origin) :	Exposure Limit (8h) (NL)
Limit value :	100 mg/m^3
Remark :	H
Version :	01-01-2007
Limit value type (country of origin) :	Exposure Limit (15min) (NL)
Limit value :	246 mg/m^3
Remark :	H
Version :	01-01-2007

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL Consumer (local) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	123 mg/m^3
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	49 mg/m^3
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation

Exposure frequency :	Short-term (acute)
Limit value :	426 mg/m^3
Safety factor :	30
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	38 mg/kg
Safety factor :	4
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	44,5 mg/kg
Safety factor :	30
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	3,2 mg/kg
Safety factor :	3
Limit value type :	DNEL Consumer (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Exposure frequency :	Short-term (acute)
Limit value :	13,4 mg/kg
Safety factor :	30
Limit value type :	DNEL worker (local) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	246 mg/m^3
Limit value type :	DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	98 mg/m^3
Limit value type :	DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	663 mg/m^3
Safety factor :	15
Limit value type :	DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	75 mg/kg
Safety factor :	2
Limit value type :	DNEL worker (systemic) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	89 mg/kg
Safety factor :	15

PNEC

Limit value type :	PNEC aquatic, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	8,8 mg/l
Safety factor :	10
Limit value type :	PNEC aquatic, intermittent release (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	9,1 mg/l
Safety factor :	100
Limit value type :	PNEC aquatic, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Limit value :	0,88 mg/l
Safety factor :	100
Limit value type :	PNEC sediment, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	34,6 mg/kg
Limit value type :	PNEC sediment, marine water (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	3,46 mg/kg
Limit value type :	PNEC soil, freshwater (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	3,13 mg/kg
Limit value type :	PNEC sewage treatment plant (STP) (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Limit value :	463 mg/l
Safety factor :	1

8.2 Exposure controls

Appropriate engineering controls

Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Personal protection equipment

Eye/face protection

Suitable eye protection.

Use tightly fitting safety glasses.

Skin protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact. Use protective gloves.

Hand protection

Wear suitable gloves tested to EN374. Breakthrough time (maximum wearing time)

Suitable gloves type : Disposable gloves.

Suitable material : NR (natural rubber, natural latex)

Required properties : liquid-tight.

Breakthrough time (maximum wearing time) : > 60 min

Thickness of the glove material : > 0,5 mm

Recommended glove articles : DIN EN 374

Body protection

Suitable protective clothing : Overall

Recommended material : Natural fibres (e.g. cotton)

Respiratory protection

Full-face mask or mouthpiece with particulate filter: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 15 times the exposure limit. P3 filter: up to a max. of

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Safety relevant basis data

Physical state :		liquid	
Solidifying point :	(1013 hPa)		°C
Melting point/melting range :	(1013 hPa)		°C
Freezing point :			°C
Initial boiling point and boiling range :	(1013 hPa)		°C

Decomposition temperature :	(1013 hPa)	°C	
Flash point :		°C	
Ignition temperature :		°C	
Lower explosion limit :		Vol-%	
Upper explosion limit :		Vol-%	
Relative density :	(20 °C)	(Water = 1)	
Fat solubility :	(20 °C)	Wt %	
pH value :			
Log P O/W :			
Odour threshold :		mg/m^3	
Evaporation rate :		(Ether = 1)	
Application/surface :			
Certificate number :			
Colour :			
Odour :			
Density :	(20 °C)	g/cm^3	
Flow time :	(20 °C)	s	DIN-cup 4 mm
Flow time :	(20 °C)	s	ISO cup 4 mm
Flow time :	(20 °C)	s	ISO cup 6 mm
Viscosity :	(20 °C)	mPa.s	NEN-ISO 2884

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

10.5 Incompatible materials

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Exposure route :	Oral
Species :	Rat
Effective dose :	1746 mg/kg
Method :	OECD 401

Acute dermal toxicity

Parameter :	LD50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)

Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

11.2 Toxicokinetics, metabolism and distribution

Human toxicological data

Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter :	LC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species :	Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter :	Acute (short-term) fish toxicity
Effective dose :	1474 mg/l
Exposure time :	96 h
Method :	OECD 203

Chronic (long-term) fish toxicity

Parameter :	NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species :	Brachydanio rerio (zebra-fish)
Evaluation parameter :	Chronic (long-term) fish toxicity
Effective dose :	> 100 mg/l
Exposure time :	504 h
Method :	OECD 204

Acute (short-term) daphnia toxicity

Parameter :	EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Acute (short-term) daphnia toxicity
Effective dose :	1550 mg/l
Exposure time :	48 h
Method :	OECD 202

Chronic (long-term) daphnia toxicity

Parameter :	NOEC (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species :	Daphnia magna (Big water flea)
Evaluation parameter :	Chronic (long-term) daphnia toxicity
Effective dose :	100 mg/l
Exposure time :	504 h
Method :	OECD 211

Acute (short-term) algae toxicity

Parameter :	EC50 (BUTYL CELLOSOLVE ; CAS No. : 111-76-2)
Species :	Pseudokirchneriella subcapitata
Evaluation parameter :	Acute (short-term) algae toxicity
Effective dose :	911 mg/l
Exposure time :	72 h
Method :	OECD 201

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil
No information available.

12.5 Results of PBT and vPvB assessment
No information available.

12.6 Other adverse effects
No information available.

12.7 Additional ecotoxicological information
The preparation has been assessed following the conventional method of the Dangerous Preparations Directive and is not classified as dangerous for the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

SECTION 14: Transport information

14.1 UN number
No dangerous goods in sense of this transport regulation.

14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.

14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.

14.4 Packing group
No dangerous goods in sense of this transport regulation.

14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.

14.6 Special precautions for user
None

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU legislation

EU limit value for this product (cat. A/e): 130 g/l VOC.

Other regulations (EU)

Information according to 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

National regulations

GEEN / ZEER WEINIG OPLOSMIDDEL. VOLDOET VOOR PROFESSIONEEL GEBRUIK BINNEN AAN ARBO.

15.2 Chemical Safety Assessment
No information available.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

a.i. = Active ingredient
ACGIH = American Conference of Governmental Industrial Hygienists (US)
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road
AFFF = Aqueous Film Forming Foam
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)
AOAC = AOAC International (formerly Association of Official Analytical Chemists)
aq. = Aqueous
ASTM = American Society of Testing and Materials (US)
atm = Atmosphere(s)
B.V. = Beperkt Vennootschap (Limited)
BCF = Bioconcentration Factor
bp = Boiling point at stated pressure
bw = Body weight
ca = (Circa) about
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)
CEFIC = European Chemical Industry Council (established 1972)
CIPAC = Collaborative International Pesticides Analytical Council
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Conc = Concentration
cP = CentiPoise
cSt = Centistokes
d = Day(s)
DIN = Deutsches Institut für Normung e.V.
DNEL = Derived No-Effect Level
DT50 = Time for 50% loss; half-life
EbC50 = Median effective concentration (biomass, e.g. of algae)
EC = European Community; European Commission
EC50 = Median effective concentration
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)
ErC50 = Median effective concentration (growth rate, e.g. of algae)
EU = European Union
EWC = European Waste Catalogue
FAO = Food and Agriculture Organization (United Nations)
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)
h = Hour(s)
hPa = HectoPascal (unit of pressure)
IARC = International Agency for Research on Cancer
IATA = International Air Transport Association
IC50 = Concentration that produces 50% inhibition
IMDG Code = International Maritime Dangerous Goods Code
IMO = International Maritime Organization
ISO = International Organization for Standardization
IUCLID = International Uniform Chemical Information Database
IUPAC = International Union of Pure and Applied Chemistry
kg = Kilogram
Kow = Distribution coefficient between n-octanol and water
kPa = KiloPascal (unit of pressure)
LC50 = Concentration required to kill 50% of test organisms
LD50 = Dose required to kill 50% of test organisms
LEL = Lower Explosive Limit/Lower Explosion Limit
LOAEL = Lowest observed adverse effect level
mg = Milligram

min = Minute(s)
ml = Milliliter
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)
mp = Melting point
MRL = Maximum Residue Limit
MSDS = Material Safety Data Sheet
n.o.s. = Not Otherwise Specified
NIOSH = National Institute for Occupational Safety and Health (US)
NOAEL = No Observed Adverse Effect Level
NOEC = No observed effect concentration
NOEL = No Observable Effect Level
NOx = Oxides of Nitrogen
OECD = Organization for Economic Cooperation and Development
OEL = Occupational Exposure Limits
Pa = Pascal (unit of pressure)
PBT = Persistent, Bioaccumulative or Toxic
pH = -log10 hydrogen ion concentration
pKa = -log10 acid dissociation constant
PNEC = Previsible Non Effect Concentration
POPs = Persistent Organic Pollutants
ppb = Parts per billion
PPE = Personal Protection Equipment
ppm = Parts per million
ppt = Parts per trillion
PVC = Polyvinyl Chloride
QSAR = Quantitative Structure-Activity Relationship
REACH = Registration, Evaluation and Authorization of CHemicals (EU, see NCP)
SI = International System of Units
STEL = Short-Term Exposure Limit
tech. = Technical grade
TSCA = Toxic Substances Control Act (US)
TWA = Time-Weighted Average
vPvB = Very Persistent and Very Bioacccumulative
WHO = World Health Organization = OMS
y = Year(s)

16.3 Key literature references and sources for data

None

16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.