Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 24.10.2022 *V- 2.0 (replaces version 1.0)* *Revision: 24.10.2022*

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

1.1 Product identifier

Trade name: **THINNER 1K**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use: professional use.

Application of the substance / the mixture
Thinner, Diluent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Chemical Alliance Polska Sp. z o.o.
ul. Prosta 23, Łozienica
72-100 Goleniów
Tel. +48 91 41 65 440
info@cap.pl

Further information obtainable from:
sds@cap.pl

1.4 Emergency telephone number:
+48 91 41 65 440 (8:00-16:00)

* SECTION 2: Hazards identification

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


GHS02

Flam. Liq. 2 H225 Highly flammable liquid and vapour.


GHS08

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms


GHS02 GHS07 GHS08

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Signal word Danger

Hazard-determining components of labelling: xylene
butanone

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Determination of endocrine-disrupting properties

78-93-3 butanone: List II

* SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 78-93-3 butanone 50-100%
EINECS: 201-159-0
Reg.nr.: 01-2119457290-43
Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066

CAS: 1330-20-7 xylene 10-<25%
EINECS: 215-535-7
Reg.nr.: 01-2119488216-32
Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412

Additional information: For the wording of the listed hazard phrases refer to section 16.

* SECTION 4: First aid measures

4.1 Description of first aid measures
General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Immediately remove any clothing soiled by the product.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Take affected persons out of danger area and lay down.

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After inhalation: Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

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

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

* SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

Additional information Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

* SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Avoid contact with the eyes and skin.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Do not flush with water or aqueous cleansing agents.
Dispose of the material collected according to regulations.

6.4 Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

* SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Do not allow to enter sewers/ surface or ground water.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.
Fumes can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Store only in the original receptacle.

Information about storage in one common storage facility:

Store away from foodstuffs.
Store away from oxidising agents.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.
Store receptacle in a well ventilated area.

7.3 Specific end use(s) No further relevant information available.

* SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

78-93-3 butanone

WEL (Great Britain) Short-term value: 899 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
Sk, BMGV

IOELV (EU) Short-term value: 900 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm

1330-20-7 xylene

WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

Regulatory information WEL (Great Britain): EH40/2020
IOELV (EU): (EU) 2019/1831

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DNELs

78-93-3 butanone

Dermal DNEL 1,161 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative DNEL 600 mg/m3 (long-term - systemic effects, workers)

1330-20-7 xylene

Dermal DNEL 212 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative DNEL 442 mg/m3 (acute - systemic effects, workers)
442 mg/m3 (acute - local effects, workers)
221 mg/m3 (long-term - systemic effects, workers)
221 mg/m3 (long-term - local effects, workers)

PNECs

78-93-3 butanone

PNEC 55.8 mg/l (freshwater environment)
55.8 mg/l (marine environment)
55.8 mg/l (intermittent releases)
709 mg/l (sewage treatment plants)
PNEC 284.74 mg/kg (freshwater sediment environment)
284.7 mg/kg (marine sediment environment)
22.5 mg/kg (soil)

1330-20-7 xylene

PNEC 0.327 mg/l (freshwater environment)
0.327 mg/l (marine environment)
PNEC 12.46 mg/kg (freshwater sediment environment)
12.46 mg/kg (marine sediment environment)

Ingredients with biological limit values:

78-93-3 butanone

BMGV (Great Britain) 70 µmol/L
Medium: urine
Sampling time: post shift
Parameter: butan-2-one

1330-20-7 xylene

BMGV (Great Britain) 650 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: methyl hippuric acid

Regulatory information BMGV (Great Britain): EH40/2011

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Appropriate engineering controls No further data; see item 7.

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Individual protection measures, such as personal protective equipment

General protective and hygienic measures:	Ensure good ventilation/exhaustion at the workplace. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Keep ignition sources away - Do not smoke. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Do not eat or drink while working.
Respiratory protection:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. A2/P2 filter
Hand protection	Protective gloves Check the permeability prior to each anewed use of the glove. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.
Material of gloves	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection	Tightly sealed goggles
Body protection:	Protective work clothing

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	79-80.5 °C (78-93-3 butanone)
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	1.3 Vol %
Upper:	11.5 Vol %
Flash point:	<23 °C
Decomposition temperature:	Not determined.
pH	Not applicable.
Viscosity:	
Kinematic viscosity	<20.5 mm²/s
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	105 hPa

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Density and/or relative density	
Density at 20 °C:	0.8-0.82 g/cm³
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Not determined.
Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity	No decomposition if used according to specifications.
10.2 Chemical stability	No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions	Fumes can combine with air to form an explosive mixture.
10.4 Conditions to avoid	Protect from heat and direct sunlight.
10.5 Incompatible materials:	No further relevant information available.
10.6 Hazardous decomposition products:	Formation of toxic gases is possible during heating or in case of fire.

*
SECTION 11: Toxicological information

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

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

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LD/LC50 values relevant for classification:

78-93-3 butanone

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

1330-20-7 xylene

Dermal LD50 1,100 mg/kg (ATE)

Inhalative ATE 1.5 mg/l (dust/ mist)

Primary irritant effect:

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

78-93-3 butanone: List II

*
SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

78-93-3 butanone

EC50/7 d >100 mg/l (Desmodesmus subspicatus)

EC50/48 h >100 mg/l (Leuciscus idus melanotus)

>100 mg/l (Daphnia magna)

1330-20-7 xylene

LC50/96 h 2.6 mg/l (Oncorhynchus mykiss) (OECD 203)

EC50/3 h >157 mg/l (microorganisms)

EC50/48 h >3.4 mg/l (Ceriodaphnia dubia) (OECD 202)

EC50/73h 2.2 mg/l (Pseudokirchnerella subcapitata) (OECD 201)

12.2 Persistence and degradability

78-93-3 butanone

Biodegradation 98 % (readily biodegradable) (OECD 301 D, 28 d)

1330-20-7 xylene

Biodegradation >60 % (readily biodegradable)

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12.3 Bioaccumulative potential

78-93-3 butanone

log Pow 0.3

1330-20-7 xylene

BCF 25.9

log Kow <3.2

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Additional ecological information:

General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

* SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA UN1263

14.2 UN proper shipping name

ADR 1263 PAINT RELATED MATERIAL

IMDG, IATA PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class 3

Label 3

14.4 Packing group

ADR, IMDG, IATA II

14.5 Environmental hazards: Not applicable.

Marine pollutant (IMDG): No

14.6 Special precautions for user Warning: Flammable liquids.

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Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-E
Stowage Category	B
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	D/E

IMDG

Limited quantities (LQ)	1L
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, II

* SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I	None of the ingredients is listed.
Seveso category	P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t

REGULATION (EC) No 1907/2006

ANNEX XVII	Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

78-93-3 butanone: 3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

78-93-3 butanone: 3

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National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

* SECTION 16: Other information

The above information is based on currently available data characterising the product. They do not constitute a guarantee or quality specification. It should be regarded as a guideline for safe use, storage, transport, disposal in case of release into the environment. It is the responsibility of the user to create conditions for the safe use of the product and the user accepts responsibility for any consequences resulting from improper use of this product.

Relevant phrases

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids	Bridging principles
Skin corrosion/irritation Serious eye damage/eye irritation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: chemical number assigned to the chemical in the Chemical Abstracts Service list
DNEL: Derived No-Effect Level
PNEC: Predicted No-Effect Concentration
LC50: median lethal concentration
LD50: lethal dose 50%
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
Flam. Liq. 2: Flammable liquid substance. Hazard category 2
Flam. Liq. 3: Flammable liquid substance. Hazard category 3
Acute Tox. 4: Acute toxicity. Hazard category 4

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Skin Irrit. 2: Skin corrosion/irritation. Hazard category 2
Eye Irrit. 2: Serious eye damage/eye irritation. Hazard category 2
STOT SE 3: Toxic effects on target organs - single exposure. Hazard category 3
STOT RE 2: Toxic effects on target organs - repeated exposure. Hazard category 2
Asp. Tox. 1: Aspiration hazard. Hazard category 1
Aquatic Chronic 3: Presenting a hazard to the aquatic environment. Chronic hazard, Category 3

Sources European Chemicals Agency, http://echa.europa.eu/

*** Data compared to the previous version altered.**