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

1.1. Product Identifier
Trade name: **APP 2K Compact Härter XLCH**
Trade code: **020339, 020340, 020341, 020342, 020343, 020344**

1.2. Relevant identified uses of the substance/mixture and uses advised against
Hardener for 2K Acryl Klarlack Compact

1.3. Details of the supplier of the safety data sheet
Company: **APP Sp. z o. o.**
Ul. Przemysłowa 10, 62 – 300 Września
Poland
Tel. +48 (61) 437 00 00
Fax. +48 (61) 437 91 37
app@app.com.pl
www.app.com.pl

Safety Data Sheet e-mail: **dzp@app.com.pl**

1.4. Emergency telephone number:
+48 (61) 437 00 00

Date of issue: 2016-04-04

SECTION 2. HAZARDS IDENTIFICATION

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

GHS02

GHS07

GHS08

Danger
FlamLiq3: H226 Flammable liquid and vapour.
AspTox1: H304 May be fatal if swallowed and enters airways
AcuteTox4: H332 Harmful if inhaled
SkinIrrit2: H315 Causes skin irritation.
SkinSens1: H317 May cause an allergic skin reaction
EyeIrrit2: H319 Causes serious eye irritation
AcuteTox4: H332 Harmful if inhaled
STOT SE3: H335 May cause respiratory irritation
STOT SE3: H336 May cause drowsiness or dizziness

STOT RE2: H373 May cause damage to organs through prolonged or repeated exposure.
EUH204 Contains isocyanates. May produce an allergic reaction.

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Contains:
Poly(hexamethylene diisocyanate)
Xylene

Signal word:

Danger

Pictogram:

GHS02

GHS07

GHS08

Hazard statement(s)

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways
H332 Harmful if inhaled
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H373 May cause damage to organs through prolonged or repeated exposure.
EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+ P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370+ P378 In case of fire: Use sand, extinguishing powder or alcohol restiant foam to extinguish.
P403 Store in a well-ventilated place.
P501 Dispose of contents/container according to local/regional/national/international regulations.

2.3 Other hazards

Does not fulfil criteria of PBT and vPvB according to annex XIII 1907/2006
UN: 1263

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of EEC directive 67/548 and CLP regulation and related classification:

Name	Conc.	CAS No	Index No	EC No	Classification:
Poly(hexamethylene diisocyanate) REACH Reg. No 01-2119485796-17-XXXX	30-<50 %	28182-81-2	brak	500-060-2	**GHS07; Wng AcuteTox4: H332 SkinSens1: H317 STOT SE3: H335**
n-butyl acetate REACH Reg. No 01-2119485492-29-XXXX	30-<50 %	123-86-4	607-025-00-1	204-658-1	**GHS02; GHS04 Wng Flam.Liq.3: H226 STOT SE3: H336 EUH066**
Xylene REACH Reg. No: 01-2119488216-32-XXXX	25-<30%	1330-20-7	601-022-00-9	215-525-7	**GHS02; GHS07 Wng FlamLiq3: H226 AspTox1: H304 AcuteTox4: H312 AcuteTox4: H332 SkinIrrit2: H315 EyeIrrit2: H319 STOT SE3: H335 STOT RE3: H373**
Ethylobenzene	1-<10 %	100-41-4	601-023-00-4	202-849-4	**GHS02; GHS07 ; GHS08 Dgr Flam. Liq.2: H225 AspTox1: H304 STOT RE2: H373 Acute Tox.4: H332 SkinIrrit2: H315 EyeIrrit2: H319 STOT SE3: H335**
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha – unspecified; Note P	<2,5%	64742-95-6	649-356-00-4	256-199-0	**GHS02; GHS07; GHS08; GHS09 Dgr Flam.Liq.3: H226 Asp.Tox.1: H304 AquaticChronic2:H411 STOT SE3: H335 STOT SE3: H336 EUH066**

Full text of R-Phrases and H-Phrases can be found under heading 16

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. . In case of irritation, consult a doctor

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time. In case of irritation, consult an ophthalmologist. Remove Contact Lenses

In case of Ingestion:

Do not under any circumstances induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor immediately and show him label or Safety Data Sheet.

In case of Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of respiration problems , consult a doctor immediately and show him label or Safety Data Sheet.

4.2. Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways. Harmful if inhaled . May cause an allergic skin reaction. Harmful if inhaled May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.Contains isocyanates. May produce an allergic reaction.

4.3. Indication of any immediate medical attention and special treatment needed

In case if ingestion consult a doctor.

Treatment:

None

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Extinguishing media which must not be used for safety reasons:

Water jet.

5.2. Special hazards arising from the substance or mixture

Flammable liquid. The vapour is heavier than air, spreads along the ground and distant ignition is possible. Toxic fumes may be evolved on burning or exposure to heat. Do not inhale explosion and combustion gases.

5.3. Advice for fire-fighters

Fires in confined spaces should be dealt with by trained personnel warning approved air supplied brething apparatus. Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Provide adequate ventilation.
Use appropriate respiratory protection.
See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.

6.3. Methods and material for containment and cleaning up

Contain and recover liquid using sand or other suitable inert absorbent material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated. Recovery of large spillages should be effected by specialist personnel. Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. Large and uncontained spillages should be smothered in foam to reduce the risk of ignition. The foam blanket should be maintained until the area is declared safe. Vapour is heavier than air and may travel to remote sources of ignition (e.g. along drainage systems, in basements, etc.). In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and

water supplies. In case of spillage at sea, approved dispersants may be used where authorized by the appropriate regulatory authority. In the event of spillages, contact the appropriate authorities.

6.4. Reference to other sections

See Section 8 for information on personal protection equipment.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid breathing vapours or contact with material. Only use in well ventilated areas. Wash thoroughly after handling. Air-dry contaminated clothing in a well-ventilated area before laundering. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires. Use local exhaust ventilation if there is risk of inhalation of vapours. Prevent spillages. For comprehensive advice on handling, product transfer, storage and tank cleaning refer to the product supplier. For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

7.2. Conditions for safe storage, including any incompatibilities

Store and dispense only in well ventilated areas away from heat and sources of ignition. Store and use only in equipment/containers designed for use with the product. Containers must be properly labelled and kept closed when not in use. Do not remove warning labels from containers. Do not re-use container for any other product. Empty packages may retain residual product; retain hazard warning labels on empty packages as a guide to their safe handling, storage and disposal. Do not introduce an ignition source. Heating may cause an explosion. Storage on solid, hydrocarbons-proof floor.

7.3. Specific end use(s)

None.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

N.A.

8.2. Exposure controls

Do not eat, drink or smoke while working. Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

Eye protection:

Wear face visor or goggles in circumstances where eye contact can accidentally occur.

Protection for skin/hands:

If skin contact is likely, wear impervious protective clothing and/or gloves (nitrile or PVC). Protective clothing should be regularly inspected and maintained. Change heavily contaminated clothing as soon as reasonably practicable and launder before re-use. Wash any contaminated underlying skin with soap and water.

Respiratory protection:

Respiratory protection is normally unnecessary, provided the concentration of vapour is adequately controlled. If operations are such that the excessive generation and inhalation of vapour may be anticipated, then suitable approved organic vapour and particulate respiratory equipment should be worn

Thermal Hazards:

None

Environmental exposure controls:

None

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance and colour: liquid, colorless
Odour: characteristic
Odour threshold: N.D.
pH: N.A.
Melting point / freezing point: N.D.
Initial boiling point and boiling range: 126.3ºC
Upper/lower flammability or explosive limits: -
Vapour density: N.D.
Flash point: 25ºC
Evaporation rate: N.A.
Vapour pressure: 7,7 hPa (20ºC)
Density: 960 kg/m^3 (15ºC)
Solubility in water: insoluble
Solubility in organic solvents: soluble in aromatic solvents
Lipid solubility: N.A.

Partition coefficient (n-octanol/water): N.A.
Ignition temperature: N.D.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity dyn.: N.D.
Viscosity kin.: <20,5 mm^2/s (40ºC)
Explosive properties: can form an explisive mixture in air
Oxidizing properties: not oxidizing

9.2. Other information

VOC: 561.5 g/l

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Mixture is not reactive.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

- solar radiation
- sparks
- flame
- heat

10.5. Incompatible materials

- hydrogen chloride
- prussic acid
- amines
- alcohols
- nitrous oxide
- nitrogen oxides
- carbon oxides

10.6. Hazardous decomposition products

None.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May be fatal if swallowed and enters airways
Causes skin irritation.
May cause an allergic skin reaction
Causes serious eye irritation
Harmful if inhaled
May cause respiratory irritation
May cause drowsiness or dizziness
May cause damage to organs through prolonged or repeated exposure.
Contains isocyanates. May produce an allergic reaction.

Toxicological information of components:

Xylene:

LD50 (rat, ingestion):	4300 mg/kg
LC50 (rat, inhalation):	22080 mg/l/4h
LD50 (rabbit, skin):	1700 mg/kg

n-butyl acetate

LD50 (rat, ingestion):	10768 mg/kg
LC50 (rat, inhalation):	23400 mg/l/4h
LD50 (rabbit, skin):	17600 mg/kg

Solvent naphtha (petroleum), light arom.;

LD50 (rat, ingestion):	3900 mg/kg
LC50 (rat, inhalation):	3160 mg/l/ 4h

Poly(hexamethylene diisocyanate

LD50 (rat, ingestion):	>5000mg/kg
LD50 (rabbit, skin):	>5000 mg/kg
LC50 (rat, inhalation):	390 mg/dm^3/4h

a) acute toxicity: harmful by inhalation

b) skin corrosion/irritation: Harmful if inhaled

c) serious eye damage/irritation: Causes serious eye irritation
d) respiratory or skin sensitization: May cause an allergic skin reaction **.** Contains isocyanates. May produce an allergic reaction
e) germ cell mutagenicity: no hazard
f) carcinogenicity: no hazard
g) reproductive toxicity: no hazard
h) STOT-single exposure: May cause respiratory irritation**.**May cause drowsiness or dizziness
i) STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
j) aspiration hazard: May be fatal if swallowed and enters airways

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity
Mixture is not classified as hazardous.
Xylene:
Toxicity to:
- fish CL50: 1.4 mg/l/96h
- crustacea EC50: 16 mg/l/48h

n-butyl acetate
Toxicity to:
- fish CL50:: 18 mg/l/96h
- crustacea EC50: 32 mg/l/48h
- alga EC50: 675 mg/l/72h

Solvent naphtha (petroleum), light arom.;
Toxicity to:
- fish CL50: 9.2 mg/l/96h
- crustacea EC50: 6.1 mg/l/48h

12.2. Persistence and degradability
Expected to be biodegradable.
12.3. Bioaccumulative potential
No data.
12.4. Mobility in soil
No data
12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
None

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations or if approved allowed to degrade in situ. Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil. Empty packages may contain some remaining product. Hazard warning labels are a guide to the safe handling of empty packages and should not be removed.

SECTION 14. TRANSPORT INFORMATION

14.1. UN number
1263
14.2. UN proper shipping name
Paint
14.3. Transport hazard class(es)
3
14.4. Packing Group
III
14.5. Environmental hazards
No
14.6. Special Precautions for User
During handling wear personal protection equipment (see Section 8)
Avoid heat and flame.
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
N.A.

SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances). Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations). Dir. 98/24/EC (Risks related to chemical agents at work). Dir. 2000/39/EC (Occupational exposure limit values); Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP), Regulation (CE) n.790/2009.
Where applicable, refer to the following regulatory provisions :
Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.
Regulation (EC) nr 648/2004 (detergents).
1999/13/EC (VOC directive)
15.2. Chemical Safety Assessment
No

SECTION 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:
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
H317 - May cause an allergic skin reaction
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
EUH066 Repeated exposure may cause skin dryness or cracking
H411 - Toxic to aquatic life with long lasting effects

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.