	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 1 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product identifier:

Trade name: APP Harter AcrylFiller 401 4:1 normal acrylic primer hardener.

Trade code: 020518, 020520.

UFI: KWW7-TMHH-910C-46HF

1.2. Relevant identified uses of the substance and uses advised against:

Identified uses: hardener for acrylic primer.

Uses advised against: no further information available.

Reason for discouraging use: no further information available.

Other: no further information available.

1.3. Details of the supplier of the safety data sheet:

Supplier: APP Sp. z o.o.

Postal address: ul. Przemysłowa 10, PL 62-300 Września

Telephone number: +48 614 370 000

Fax number: +48 614 379 137

Email: app@app.com.pl

Contact email address: dzp@app.com.pl

Website: www.app.com.pl

Current safety data and technical information are available on the website.

1.4. Emergency telephone number:

24-hour emergency telephone number: 112.

Emergency telephone number Mon–Fri 8am–4pm: +48 614 370 000

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance/mixture:

Classification in accordance with Table 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council (GHS Regulation) and based on data provided by the manufacturer:



GHS02



GHS07

Note

FlamLiq3: H226 Flammable liquid and vapour.

SkinSens1: H317 May cause an allergic skin reaction.

STOT SE3: H335 May cause respiratory irritation.

STOT SE3: H336 May cause drowsiness or dizziness.

EUH 204 Contains isocyanates. May cause an allergic reaction.


EUH 066 Repeated exposure may cause skin dryness or cracking.

2.2. Labelling elements:

Contains:

Hexamethylene diisocyanate oligomers

2-methoxy-1-methylethyl acetate

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 2 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

Butyl acetate
Tosyl isocyanate

Signal word:

Warning

GHS pictograms:



GHS02



GHS07

Hazard statements:

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
EUH 204 Contains isocyanates. May cause an allergic reaction.
EUH 066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sources of sparks, open flames and other sources ignition. Do not smoke.
P241 Use electrical/ventilating/lighting/explosion-proof equipment.
P261 Avoid inhaling vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353 IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin under running water/in a shower.
P312 If you feel unwell, contact a POISON CENTRE/doctor.
P304 + P340 IF INHALED: remove or carry the affected person to fresh air and ensure they can breathe freely.
P405 Keep locked up.
P501 Dispose of the container and its contents in accordance with local, regional, national or international regulations

2.3. Other hazards:

UN: 1263

No information is available regarding compliance with the PBT or vPvB criteria in accordance with Annex XIII of Regulation 1907/2006 (REACH). No tests have been carried out.

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS


3.1. Substances:

Not applicable.

3.2. Mixtures:

The classification of the substances contained in the product is given in accordance with Table 3.1 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council (GHS Regulation), taking into account Articles 30 and 31 of the ATP to 67/548/EEC, and based on data provided by the manufacturer.

Name of hazardous substance	Concentration range	CAS number	Index number	EC number	Hazard symbols Hazard
-----------------------------	---------------------	------------	--------------	-----------	-----------------------

	SAFETY DATA SHEET			
	In accordance with Commission Regulation (EU) 2020/878			
	APP Harter AcrylFiller 401 4:1 standard		Page 3 of 9	
Date of creation: xx.xx.xxxx		Date of revision: 20.10.2024		Version number: xx

butyl acetate REACH: 01-2119485493-29	50-75%	123-86-4	607-025-00-1	204-658-1	GHS02; GHS04 Flam.Liq.3: H226 STOT SE3: H336 EUH066
Hexamethylene diisocyanate oligomers REACH: 01-2119488934-20	25-50%	28182-81-2	-	500-060-2	GHS07 AcuteTox.4: H332 SkinSens.1: H317 STOT SE3: H335
2-methoxy-1-methylethyl acetate REACH: 01-2119475791-29	2,5-< 10%	108-65-6	607-195-00-7	203-603-9	GHS02 FlamLiq.3: H226 STOT SE3: H336
2-butoxyethyl acetate REACH: 01-211947511247	≤5%	112-07-2	607-038-00-2	203-933-3	GHS07 AcuteTox4: H312 AcuteTox4: H332
Tosyl isocyanate REACH: 01-2119980050-47	<1 %	4083-64-1	615-012-00-7	223-810-8	GHS07; GHS08 RespSens1: H334 SkinIrrit2: H315 EyeIrrit2: H319 STOT SE3: H335 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 5 % STOT SE 3; H335: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %

For the wording of the phrases used – see section 16.

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures:

4.1.1 First aid guidelines by relevant routes of exposure:

Show the Safety Data Sheet to the attending doctor. In case of exposure to vapours and aerosols of the product, move the affected person to a well-ventilated area – seek medical assistance

a) respiratory tract: immediately move the affected person to a well-ventilated area; place the affected person in a semi-recumbent position, loosen clothing, ensure that there are no objects or secretions in the affected person's mouth that may obstruct breathing; if the affected person is not breathing – perform artificial respiration; seek medical assistance immediately.

b) skin: remove contaminated clothing; wash contaminated skin with plenty of soapy water; do not use any solvents or thinners to wash the skin; apply a moisturising cream to the cleansed skin; if skin irritation occurs – consult a doctor.



SAFETY DATA SHEET		
In accordance with Commission Regulation (EU) 2020/878		
APP Harter AcrylFiller 401 4:1 standard		Page 4 of 9
Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

c) eyes: rinse contaminated eyes, keeping the eyelids open, under a continuous stream of running water for 10–15 minutes; avoid a strong stream of water, which may risk damaging the cornea; if burning or irritation persists, consult a doctor; do not use any eye wash solutions or ointments before consulting a doctor; if the affected person is wearing contact lenses, remove them if possible; seek medical assistance if eye irritation occurs.

d) digestive tract: rinse the mouth with plenty of running water; do not induce vomiting; if the victim is conscious, give them water to drink in small sips (approx. 0.2–0.3 litres); do not give anything to an unconscious person; if the victim feels unwell – consult a doctor;

4.1.2. Other:

None.

4.2. Most important acute and delayed symptoms and effects of exposure:

Acute symptoms:

May cause an allergic skin reaction. May cause drowsiness or dizziness.

Delayed symptoms:

May cause sensitisation by skin contact

4.3. Indications for any immediate medical attention and special treatment of the affected person:

If a significant amount of the product has been ingested, seek medical advice.

Section 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

a) Recommended extinguishing media: Water spray, dry powder extinguishers, alcohol-resistant foam.

b) Extinguishing media not recommended: Avoid strong water jets, which may spread the fire.

In the event of fires involving products containing isocyanates, alcohol- or water-resistant fire-fighting foams may only be used in the case of very large fires or where the fire is spreading. Do not direct a concentrated jet of water onto the surface of the product.

Note: Do not allow water to enter the containers.

Cool containers exposed to fire or high temperatures with water from a safe distance and, if possible, remove them from the danger zone

When the product burns, fumes are produced containing chemicals hazardous to health, including carbon monoxide and carbon dioxide, nitrogen oxides, hydrogen cyanide and cyanides.

5.2. Specific hazards associated with the substance/mixture:

Vapours of the product form flammable and explosive mixtures with air. Vapours may rise to an ignition source and return as a flame. Heat, sparks or contact with fire may cause ignition. Emits toxic gases in the event of a fire. Keep away from sources of ignition – do not smoke whilst spraying. Keep out of reach of children. Without adequate ventilation, explosive mixtures may form.

5.3. Information for the fire service:

Wear self-contained breathing apparatus and suitable protective clothing.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1. For non-emergency personnel:

- when handling the material, wear protective clothing, protective gloves, safety goggles and a gas mask

6.1.2. For emergency responders:

- during removal, avoid the formation and inhalation of vapours and aerosols from the product

- wear well-fitting and tight-fitting safety goggles, protective gloves and protective clothing

6.2. Environmental precautions:

- in the event of a large-scale release into water or soil, notify the relevant authorities

6.3. Methods and materials to prevent the spread of contamination and for decontamination:

6.3.1. Recommendations for preventing the spread of a spill:

- store and transport in sealed containers

- remove the product immediately

- prevent the product from entering watercourses or drainage systems

- rinse the area after removing the product and any equipment that has come into contact with it with water

6.3.2. Recommendations for spill clean-up:

- Absorb with non-flammable absorbent material (e.g. diatomaceous earth)

- collect the absorbent material in a clearly labelled, sealable container


- Eliminate all possible sources of ignition; do not smoke

6.3.3. Other information:

None

6.4. Reference to other sections:

See information in sections 8 and 13.

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 5 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

Section 7. HANDLING AND STORAGE OF THE MIXTURE

7.1. Precautions for safe handling:

7.1.1. General recommendations:

- avoid electrical and electrostatic discharges
- Do not allow vapour concentrations of the product in the air where mixtures with air may be explosive, nor concentrations exceeding occupational exposure limits
- ensure easy access to fire-fighting agents and equipment necessary for dealing with a spill substance
- follow general health and safety rules for working with chemicals and good industrial practice; strictly adhere to established procedures; when working with the product, apply the general health and safety regulations set out in the Regulation of the Minister of Labour and Social Policy of 30 December 2004 (Journal of Laws No. 11 of 2005, item 86); follow the recommendations contained in the instructions provided by the manufacturer

- avoid contact with eyes, skin and clothing

- avoid prolonged and repeated exposure

7.1.2. Occupational hygiene guidelines:

- observe personal hygiene rules

- do not eat, drink or smoke whilst working with the product, except in designated areas; wash hands before breaks and after finishing work; apply hand cream if necessary

- work in well-ventilated areas

7.2. Conditions for safe storage, including information on any incompatibilities incompatibilities:

- Store the product in cool, dry and well-ventilated areas

- do not store near foodstuffs/feed

- Packaging must be sealed and properly labelled

- For safety reasons, the product is best stored in its original packaging

- Protect packaging from mechanical damage

7.3. Specific end uses:

None.

Section 8. EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters:

8.1.1. Maximum permissible concentrations in the workplace:

According to the Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on maximum permissible concentrations and intensities of factors harmful to health in the workplace (Journal of Laws 2018, item 1286)

Butyl acetate: MAC: 240 mg/m³

NDSCh: 720 mg/m³

2-methoxy-1-methylethyl acetate : NDS: 260 mg/m³

NDSCh: 520 mg/m³

8.1.2. Recommended monitoring procedures:

- PN-89/Z-01001/06. Air quality protection. Names, definitions and units. Terminology relating to air quality testing at workplaces.

- PN-89/Z-04008/07. Air quality protection. Sampling. Principles of air sampling in the workplace and interpretation of results.

- PN-68/Z-04051 Determination of ethyl acetate and butyl acetate in air.

- PN-78/Z-04119 Air quality protection. Testing for acetic acid esters. Determination of methyl, ethyl, propyl, butyl and amyl acetates at workplaces using gas chromatography with sample enrichment.

- Method recommended by research and development units in the field of occupational medicine. 2-methoxy-1-methylethyl acetate

8.1.3. Maximum permissible concentration in biological material (MPC):

None

8.1.4. DNEL and PNEC values:

No DNEL or PNEC values have been established for this substance.

8.2. Exposure control:

8.2.1. Appropriate technical control measures:


Medical examinations of workers and testing and measurement of harmful factors shall be carried out in accordance with applicable regulations.

8.2.2. Personal protective equipment:

a) Eye or face protection: in the event of frequent exposure, goggles or safety glasses that fit snugly against the face.

b) Skin protection: protective (work) clothing.

c) Protective gloves. The material from which the gloves are made must be impermeable and resistant to the product. The choice of material for protective gloves should take into account breakthrough times, permeation rates and degradation. The selection of suitable gloves depends not only on the material, but also on other quality characteristics, and varies from manufacturer to manufacturer. As the product is a formulation consisting of several substances, the

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 6 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

resistance of the materials from which the gloves are made cannot be calculated in advance and must therefore be tested before use. Information on the exact breakthrough time must be obtained from the glove manufacturer and adhered to.

d) Respiratory protection: effective ventilation; in the event of frequent exposure, a mask with a filter, .

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Physical state

Liquid

Colour

colourless

Odour

Characteristic

Melting/freezing point

No data

Boiling point or initial boiling point and boiling range

124°C

Flammability of materials

No data available

Lower and upper explosion limits

1.2–7.5%

Flash point

28°C

Auto-ignition temperature

315°C

Decomposition temperature

No data available

pH

No data

Kinematic viscosity

>20.5 cSt

Solubility

No data

n-octanol/water partition coefficient (log value)

No data available

Vapour pressure

10.7 hPa (20°C), 55 hPa (20°C)

Density or relative density

0.974 g/l

Relative vapour density:

No data

Molecular characteristics

Not applicable

9.2. Other information:

Information on physical hazard classes

No data available

Other safety properties

- Organic solvents: 63.9%
- VOC (volatile organic compounds): 618.9 g/l
- Solids content: 36.1%

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity:

The product is not reactive.

10.2. Chemical stability:


The product is chemically stable.

10.3. Possibility of hazardous reactions:

None known.

10.4. Conditions to avoid:

High temperatures. Ignition sources, heat sources, sources of sparks.

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 7 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

10.5. Incompatible materials:

- nitrous gases
- hydrogen chloride
- hydrogen cyanide
- carbon oxides
- nitrogen oxides

10.6. Hazardous decomposition/combustion products:

- during combustion of the product, toxic gases may be produced, including carbon monoxide and carbon dioxide, nitrogen oxides,

Section 11. TOXICOLOGICAL INFORMATION

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

a) Acute toxicity

No data available.

The mixture is not classified as hazardous in this category.

b) Skin corrosion/irritation

No data available.

The mixture is not classified as hazardous in this category.

c) Serious eye damage/eye irritation

No data available.

The mixture is not classified as hazardous in this category.

d) Respiratory or skin sensitisation

Contains:

Hexamethylene diisocyanate oligomers

May cause an allergic skin reaction.

e) Mutagenic effects

No data available.

The mixture is not classified as hazardous in this category.

f) Carcinogenicity

No data available.

The mixture is not classified as hazardous in this category.

g) Reproductive toxicity

No data available.

The mixture is not classified as hazardous in this category.

h) Acute toxicity

May cause respiratory irritation.

May cause drowsiness or dizziness.

i) Repeated-dose toxicity

May cause respiratory irritation.

May cause drowsiness or dizziness.

j) Aspiration hazard:

No data available.

The mixture is not classified as hazardous in this category.

11.2. Information on other hazards

11.2.1. Endocrine-disrupting properties

- No data available

11.2.2. Other information

Section 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

- The mixture is not classified as hazardous to the environment
- follow the instructions or safety data sheet

12.2. Stability and degradability:


No data available

12.3. Bioaccumulative potential:

No data available.

12.4. Mobility in soil:

No data available.

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 8 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

12.5. Results of the PBT and vPvB assessment:

Does not meet the criteria for PBT and vPvB.

12.6. Endocrine-disrupting properties

None.

12.7. Other adverse effects:

None.

Section 13. WASTE MANAGEMENT

13.1. Waste treatment methods:

13.1.1. Product:

- waste type: Waste paints and varnishes containing organic solvents or other hazardous substances
- waste code: 08 01 11*
- hazardous waste

If possible, recover and return to production. Do not dispose of with household waste. Do not discharge into the drainage system. Do not allow contamination of surface water, groundwater or soil. Dispose of in accordance with current regulations relating to chemical waste. Dispose of only at designated sites, in facilities or equipment meeting statutory requirements.

13.1.2 Packaging:

- waste type: Metal packaging
- waste code: 15 01 04

Section 14. TRANSPORT INFORMATION

LAND TRANSPORT:

14.1. **UN number or ID number** 1263

14.2. **UN proper shipping name:** PAINT

14.3. **Transport hazard class:** 3

14.4. **Packing group:** III

14.5. **Environmental hazards:** none

14.6. **Special precautions for users:** None

14.7. **Transport in bulk by sea in accordance with IMO instruments:** Not applicable

Other:

Identification code: F1


Labels: 3

Hazard identification number: 30

Section 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations specific to substances and mixtures:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (30.12.2006 EN Official Journal of the European Union L 396/1) as amended (9.10.2008 EN Official Journal of the European Union L 268/14; 17 February 2009 Official Journal of the European Union L 46/3; 26 June 2009 Official Journal of the European Union L 164/7; 1 April 2010 Official Journal of the European Union L 86/7; 31 May 2010 Official Journal of the European Union L 133/1; 18 February; EN Official Journal of the European Union L 44/2; 21 May 2011 EN Official Journal of the European Union L 134/2) as subsequently amended.
2. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (referred to as the GHS Regulation) (31.12.2008 EN Official Journal of the European Union L 353/1) as subsequently amended.
3. Act of 28 May 2020 amending the Act on Chemical Substances and Mixtures and certain other Acts (Journal of Laws 2020, item 1337)
4. Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the maximum and permissible concentrations and intensities of factors harmful to health in the workplace (Journal of Laws 2018, item 1286)
5. Regulation of the Minister of Health of 2 February 2011 on the testing and measurement of factors harmful to health in the workplace (Journal of Laws 2011, No. 33, item 166)
6. Commission Regulation (EU) No 252/2011 of 15 March 2011 amending Annex I to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

	SAFETY DATA SHEET		
	In accordance with Commission Regulation (EU) 2020/878		
	APP Harter AcrylFiller 401 4:1 standard		Page 9 of 9
	Date of creation: xx.xx.xxxx	Date of revision: 20.10.2024	Version number: xx

7. COMMISSION REGULATION (EU) No 253/2011 of 15 March 2011 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XIII
8. Regulation of the Minister of Development of 8 August 2016 on the limitation of emissions of volatile organic compounds contained in certain paints and varnishes intended for the painting of buildings and their finishing elements, fittings and structures associated with buildings and these elements, and in mixtures for the refurbishment of vehicles (Journal of Laws 2016, item 1353)
9. Regulation of the Minister of Economy of 10 March 2014 amending the Regulation on specific requirements for aerosol products (Journal of Laws 2014, item 345)
10. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
11. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment:

No data available.

Section 16. OTHER INFORMATION

Wording of the hazard statements listed in sections 2 and 3 of the safety data sheet:

H226	Flammable liquid and vapour	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Irritating to eyes.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if	inhalation.
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	

Medical examinations of employees and tests and measurements of harmful factors must be carried out in accordance with applicable regulations.

The above information has been compiled based on current knowledge and experience. However, it does not constitute a guarantee of the product's properties or quality specifications and cannot form the basis for a claim. The product should be transported, stored and used in accordance with applicable regulations and good working practices and hygiene.

The manufacturer accepts no liability for losses arising directly or indirectly from the application of the above interpretation of regulations or instructions.

The information provided does not apply to mixtures of the product with other substances. The use of the information provided, as well as the use of the product, is not controlled by the manufacturer; therefore, it is the user's responsibility to ensure appropriate conditions for the safe handling of the product.

This safety data sheet was prepared by **CHEM-NET Magdalena Granosik chcem-net@wp.pl**, on behalf of **APP Sp. z o. o.** The sheet was prepared in accordance with current national regulations. It was compiled using data provided by the manufacturer and based on the current state of knowledge and experience.