

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1. Product Identifier**Trade name: **Hardener for acrylic clear coat APP Harter Klarlack Spezial S**Trade code: **020317-020320****1.2. Relevant identified uses of the substance/mixture and uses advised against**
Lacquer hardener.**1.3. Details of the supplier of the safety data sheet**

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Date of issue: 2019-12-03

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****H336 May cause drowsiness or dizziness****STOT RE2: H373 May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure - inhalation.****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

H336 May cause drowsiness or dizziness

H373 May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure - inhalation.

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 resistant 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)	25-50 %	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	10-<25 %	123-86-4	607-025-00-1	204-658-1	GHS02; GHS04 Wng Flam.Liq.3: H226 STOT SE3: H336 EUH066

2-methoxy-1-methylethyl acetate REACH Reg. No: 01-2119475791-29-XXXX	10-<25 %	108-65-6	607-195-00-7	203-603-9	GHS02 Wng FlamLiq3: H226
Xylene REACH Reg. No: 01-2119488216-32-XXXX	10-<25%	1330-20-7	601-022-00-9	215-525-7	GHS02; GHS07 Wng FlamLiq3: H226 AcuteTox4: H312 AcuteTox4: H332 SkinIrrit2: H315
Ethylbenzene	2,5-<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.



SATEFY DATA SHEET

Date of issue: 2019-12-03

APP Harter Klarlack Spezial S

Page 4 z 8

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

May be fatal if swallowed and enters airways. Harmful if inhaled

May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure - inhalation

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 wearing approved air supplied breathing 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. Store at temperature 5-32°C. 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



SATEFY DATA SHEET

Date of issue: 2019-12-03

APP Harter Klarlack Spezial S

Page 5 z 8

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:

Nitrile gloves.

Respiratory protection:

Respiratory protection.

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: 126.3°C

Upper/lower flammability or explosive limits: -

Vapour density: N.D.

Flash point: 27°C

Evaporation rate: N.A.

Vapour pressure: 6,7 mmHg (20°C)

Density: 998 kg/m³ (15°C)

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.: 24 cps (20°C)

Viscosity kin.: 8,3 mm²/s (40°C)

Explosive properties: can form an explosive 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

- strong acids
- oxides and reductors

10.6. Hazardous decomposition products

None.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

May be fatal if swallowed and enters airways

Harmful if inhaled

Causes skin irritation.

May cause an allergic skin reaction

Causes serious eye irritation

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure - inhalation.

Contains isocyanates. May produce an allergic reaction.

a) acute toxicity: Harmful if inhaled

b) skin corrosion/irritation: skin irritation.

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 drowsiness or dizziness

i) STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure - inhalation.

j) aspiration hazard: May be fatal if swallowed and enters airways

Buthyl acetate

LD50 (rat, ingestion) 10768 mg/kg

LC50 (rat, inhalation): 23400 mg/m³/4 h

LD50 (rabbit, skin): 17600 mg/kg

2-methoxy-1-methylethyl acetate

LD50 (rat, ingestion) 8532 mg/kg

LC50 (rat, inhalation): 35700 mg/m³/4 h

LD50 (rabbit, skin): >5000 mg/kg

Xylene

LD50 (rat, ingestion) 4300 mg/kg

LC50 (rat, inhalation): 22080 mg/m³/4 h

LD50 (rabbit, skin): 1700 mg/kg

Ethylbenzene

LD50 (rat, ingestion); 3500 mg/kg

LC50 (rat, inhalation): 17400 mg/m³/4 h

LD50 (rabbit, skin): 15400 mg/kg

SECTION 12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Mixture is not classified as hazardous.

Buthyl acetate

- fish LC50: 18 mg/dm³/96h

- crustacea EC50: 32 mg/dm³/48 h

- algae IC50: 675 mg/dm³/72 h

2-methoxy-1-methylethyl acetate

- fish LC50: >100 mg/dm³/96h

- crustacea EC50: 408 mg/dm³/48h

- algae IC50: >1000 mg/dm³/72 h

Xylene:

- fish LC50: 14 mg/dm³/96h

- crustacea EC50: 16 mg/dm³/48h

Ethylbenzene:

- fish LC50: 12 mg/dm³/96h

**SATEFY DATA SHEET**

Date of issue: 2019-12-03

APP Harter Klarlack Spezial S

Page 7 z 8

- crustacea EC50: 1,8 mg/dm³/48h
- algae IC50: mg/dm³/72 h

12.2. Persistence and degradability

No data.

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



SATEFY DATA SHEET

Date of issue: 2019-12-03

APP Harter Klarlack Spezial S

Page 8 z 8

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.