

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

## 1-IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Identification of the substance / mixture

Product Name: **e-HARDENER**  
**2K HARDENER FAST**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Refinish - Hardener

### 1.2. Details of the supplier of the safety data sheet:

Polaron Boya Kimya Sanayi ve Ticaret Anonim Şirketi  
10. Cadde No: 10 41400 Gebze/Kocaeli  
Tel: +90 262 751 25 51  
Fax: +90 262 751 25 52  
e-mail: sds@polaronboya.com

### 1.3. Emergency telephone number: +90 262 751 25 51 (working hours)

## 2-HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids (Category 2), H225  
Skin sensitisation (Category 1), H317  
Serious Eye Irritation (Category 2), H319  
Acute Toxicity (respiratory) (Category 4), H332  
Specific target organ toxicity, single exposure (Category 3), H335  
Specific target organ toxicity, single exposure (Category 3), H336

Full text for all (H) Sentences and (P) statements is given in section 16.

### 2.2. Label elements

Labeling (REGULATION (EC) No 1272/2008)



GHS02



GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H225: Highly flammable liquid and vapour.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

Precautionary statements (CLP): P201: Obtain special instructions before use.  
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P234: Keep only in original packaging.  
P241: Use explosion-proof electrical/ ventilating/ lighting equipment.  
P260: Do not breathe dust/fume/gas/mist/vapours/ spray.  
P264: Wash skin thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protector/face protector.  
P314: Get medical advice/attention if you feel unwell.  
P337 + P313: If eye irritation persists: Get medical advice/ attention.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
Rinse skin with water/shower.  
P301 + P312 + P330: IF SWALLOWED: If you feel unwell, call THE NATIONAL POISON  
ADVICE CENTER or a doctor / physician. Rinse your mouth.  
P308 + P313: IF exposed or concerned: Get medical advice/ attention.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for  
breathing.  
P305 + P351 + P338 + P310: IF IN EYE CONTACT: Rinse carefully with water for a few  
minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call  
THE NATIONAL POISON ADVICE CENTER or the doctor / physician  
immediately.  
P403 + P235: Store in a well-ventilated place. Keep cool.  
P501: Dispose of contents / container according to local, regional and international  
rules.

## 2.3 Other hazards

Contains isocyanates. May cause allergic reactions.

Hazardous Components: ethyl acetate  
hexamethylene-1,6-diisocyanate homopolymer  
n-butyl acetate

## 3-COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Substance or Compound	Content (%)	Product Description	Classification
ethyl acetate	≥25 - <50	CAS No: 141-78-6 EC No: 205-500-4 REACH No: 01-2119475103-46	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT Single. 3; H336 EUH066
Hexamethylene-1,6-diisocyanate homopolymer	≥25 - <50	CAS No: 28182-81-2 EC No: 500-060-2 REACH No: 01-2119485796-17	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT Single. 3; H335
n-butyl acetate	≥20 - <30	CAS No: 123-86-4 EC No: 204-658-1 REACH No: 01-2119485493-29	Flam. Liq. 3; H226 STOT Single. 3; H336 EUH066

Release date: 25.01.2021  
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SDS No: PLOEHFST  
Rev.01

**SAFETY DATA SHEET**  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

solvent naphtha (petroleum) light arom.	≥1 - <3,6	CAS No: 64742-95-6 EC No: 265-199-0 REACH No: 01-2119455851-35	Flam. Liq. 3; H226 STOT Single. 3; H335 STOT Single. 3; H336 Aspiration Dam. 1; H304 Aquatic Chronic 2; H411 EUH066
Benzenesulfonyl isocyanate, 4-methyl-	≥0,20 - <0,30	CAS No: 4083-64-1 EC No: 223-810-8 REACH No: 01-2119980050-47	Skin Irrit. 2; 315 Eye Irrit. 2; H319 Respiratory Sens. 1; H334 STOT Single. 3; H335
dibutyltin dilaurate	≥0,02 - <0,07	CAS No: 77-58-7 EC No: 201-039-8	Skin Cor. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Mutagenic 2; H341 (oral) Reproductive Sys. Tox. 1B; H360 (oral) STOT Single. 1; H370 STOT Repetitive 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

#### 4-FIRST AID MEASURES

##### General advice

Consult the doctor. When you consult your doctor, show this safety data sheet.

##### If inhaled

If inhaled, remove casualty to fresh air. Nothing should be given by mouth. Consult the doctor.

##### In case of skin contact

Take off your dirty clothes. Wash with soap and plenty of water. Consult the doctor.

##### In case of eye contact

Remove contact lenses, if any. Open eyelids and rinse with plenty of water. Consult your doctor if the discomfort persists.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult the doctor. Do not try to induce vomiting.

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

There are no data available on the mixture itself. Exposure to solvent vapours above occupational exposure limit values may cause harmful effects on mucous membranes and respiratory system. It can have the same effects on kidneys, liver and central nervous system. In addition, absorption of the solvent through the skin may result in some of the above effects. Symptoms and signs may include headache, dizziness, fatigue, muscle weakness, drowsiness and, in extreme cases, unconsciousness.

Known symptoms and effects are indicated on the label. (section 2.2 and/or section 11)

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

No data available

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

## 5-FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media: It is recommended to use alcohol resistant foam, carbon dioxide, dry chemical powder and water spray.

Do not use water jet or pressurized water.

### 5.2. Special hazards arising from the substance or mixture

Fire will create a density of black smoke. Exposure to decomposition products may pose a health hazard.

Hazardous Thermal Decomposition Products: May include carbon monoxide, carbon dioxide, smoke, nitrogen oxides, hydrogen cyanide, monomeric isocyanates

### 5.3. Advice for firefighters

To extinguish fire, use a full mask with oxygen tube when necessary. Avoid breathing fire gases or vapors.

### 5.4 Further information

If there is no risk, water spray can be used to cool the unopened containers and the fire-fighting water should be prevented from mixing with the water environment.

## 6-ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use your personal protective equipment. Avoid breathing dust, vapor, fumes or gas. Make sure you have good ventilation.

Move personnel to a safe area. Do not breathe waste.

For personal protection see section 8.

### 6.2 Environmental precautions

If there is no safety hazard, prevent further leakage and spillage. Make sure that it does not mix with the sewer. Discharge to the environment should be prevented.

### 6.3 Methods and material for containment and cleaning up

The spilled material should be absorbed with a non-combustible absorbent material such as sand, earth, vermiculite or diatomaceous earth. Store wastes in closed containers suitable for this purpose.

### 6.4 Reference to other sections

For personal protection see Section 8.

See Section 11 for additional information on health hazards.

For waste disposal, see section 13.

## 7-HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Since its vapors are heavier than air and can spread on the floor, care should be taken to ensure that there is non-flammable or explosive vapor in the air and that the existing vapor is kept below the limits related to occupational safety. It should be kept in tightly closed containers and should be worked in places away from sources of spark and naked lights. To dissipate static electricity during transport and handling, the tanks should be grounded and the container connected with a strap. Take off contaminated clothing and wash before wearing. Do not eat or drink while working. Contact with skin and eyes should be avoided, dust, particle spray or mist generated during the application of the mixture and dust during sanding should not be inhaled. All health and safety conditions stipulated by labour laws must be met.

For precautions, see section 2.2.

Release date: 25.01.2021  
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SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

**7.2. Conditions for safe storage, including any incompatibilities**

Keep the container tightly closed in a dry and well-ventilated cool place. Avoid heat, sources of ignition and sunlight. Smoking should not be allowed. The entry of unauthorized persons must be prevented. Opened containers should be resealed and kept upright against spillage. It should not be drained into drains. It should be kept away from oxidizing agents, strong alkalis and strong acids.

**7.3 Specific end use (s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## 8-EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Occupational Exposure Limits: No exposure limit value known.

**Prescribed Monitoring Procedure:** If this product contains ingredients with exposure limit values, personal, workplace or biological measurements may be required to determine the effectiveness of ventilation or other control measures and / or the need for use of respiratory protective equipment.

**Derived Zero Impact Level (DNEL)**

PRODUCT / INGREDIENT NAME	TYP	EXPOSURE	VALUE	COMMUNITY	EFFECTS
n-butyl acetate	DNEL	Short Term Inhalation	960 mg/m3	Workers	Systemic
	DNEL	Short Term Inhalation	960 mg/m3	Workers	Local
	DNEL	Long Term Inhalation	480 mg/m3	Workers	Systemic
	DNEL	Long Term Dermal	480 mg/m3	Workers	Local
	DNEL	Short Term Inhalation	859,7 mg/m3	Consumers	Systemic
	DNEL	Short Term Inhalation	859,7 mg/m3	Consumers	Local
	DNEL	Long Term Inhalation	102,34 mg/m3	Consumers	Systemic
	DNEL	Long Term Dermal	102,34 mg/m3	Consumers	Local
solvent nafta (petrol) hafif arom.	DNEL	Long Term Dermal	25 mg/kg bw/day	Workers	Systemic
	DNEL	Long Term Inhalation	150 mg/m3	Workers	Systemic
	DNEL	Long Term Dermal	11 mg/kg bw/day	Consumers	Systemic
	DNEL	Long Term Inhalation	32 mg/m3	Consumers	Systemic
	DNEL	Long Term Oral	11 mg/kg bw/day	Consumers	Systemic
ethyl acetate	DNEL	Short Term Inhalation	1468 mg/m3	Workers	Local
	DNEL	Short Term Inhalation	1468 mg/m3	Workers	Systemic
	DNEL	Long Term Inhalation	734 mg/m3	Workers	Local
	DNEL	Long Term Inhalation	34 mg/m3	Workers	Systemic
	DNEL	Long Term Dermal	63 mg/kg bw/day	Workers	Systemic
	DNEL	Short Term Inhalation	734 mg/m3	Consumers	Local
	DNEL	Short Term Inhalation	734 mg/m3	Consumers	Systemic
	DNEL	Long Term Inhalation	367 mg/m3	Consumers	Local
	DNEL	Long Term Inhalation	367 mg/m3	Consumers	Systemic
	DNEL	Long Term Dermal	37 mg/kg bw/day	Consumers	Systemic
	DNEL	Long Term Oral	4,5 mg/kg bw/day	Consumers	Systemic
	DNEL	Long Term Oral	4,5 mg/kg bw/day	Consumers	Systemic
hexamethylene-1,6-diisocyanate homopolymer	DNEL	Short Term Inhalation	1 mg/m3	Workers	Local
	DNEL	Long Term Inhalation	0,5 mg/m3	Workers	Local

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

Predicted No Effect Concentration (PNEC)

PRODUCT / INGREDIENT NAME	LAYER DETAIL	VALUE	METHOD DETAIL
n-butyl acetate	Fresh Water	0,18 mg/l	-
	Marine	0,018 mg/l	-
	Fresh water sediment	0.981 mg/kg	-
	Marine sediment	0,0981 mg/kg	-
	Soil	0,0903 mg/kg	-
	Sewage Treatment Plant	35,6 mg/l	-
ethyl acetate	Fresh Water	0,26 mg/l	-
	Marine	0,026 mg/l	-
	Fresh water sediment	0,34 mg/kg	-
	Marine sediment	0,034 mg/kg	-
	Soil	0,22 mg/kg	-
	Sewage Treatment Plant	650 mg/l	-
hexamethylene-1,6-diisocyanate homopolymer	Fresh Water	0,127 mg/l	-
	Marine	0,0127 mg/l	-
	Fresh water sediment	266700 mg/kg dwt	-
	Marine sediment	26670 mg/kg dwt	-
	Soil	53182 mg/kg dwt	-
	Sewage Treatment Plant	38.28 mg/l	-

8.2. Exposure controls

Personal protective equipment:



Appropriate engineering controls

Handle in accordance with industrial hygiene and safety rules. Wash hands before breaks and at the end of the day.

Eye/face protection

Face shield and safety glasses Use eye protection equipment that has been tested and approved in accordance with standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Wear gloves when handling. Gloves should be checked before use. Use the correct glove removal method (without touching the outer surface of the glove) to avoid skin contact with this product. Contaminated gloves should be disposed of in accordance with good laboratory practice and compliance.

The selected protection gloves must comply with the EU 2016/425 Regulation and the EN 374 standard prepared based on this regulation.

If used in solution, or mixed with other substances and used in a way other than the conditions specified in EN 374, consult the EU approved glove supplier. This information is advisory only and should be developed by a safety officer and hygienist who is knowledgeable about the specific situation of use expected by the customer. It should not be considered an endorsement for any particular use case.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

In the risk assessment, use respirators with air purification and fully covering the face. Use relevant devices and equipment such as NIOSH (United States) or CEN (European Union).

Control of environmental exposure

Be careful not to mix with sewers and water sources.

Release date: 25.01.2021  
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SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

## 9-PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

PHYSICAL STATE	Liquid - Colorless
ODOUR	No data available
SOLUBILITY IN WATER	Insoluble
RELATIVE DENSITY	0,970-0,980 (water = 1)
UPPER / LOWER FLAMMABILITY OR EXPLOSION LIMITS	Lower: 1.6% Upper: 9.2%
FREEZING POINT	No data available
DEGRADATION TEMPERATURE	No data available
INITIAL BOLLING AND BOILING RANGE	> 77 °C
FLASH POINT	Closed cup: 10,5 °C
VAPOUR PRESSURE	No data available
VAPOUR DENSITY	3,6 (air = 1)
POUR POINT	No data available
VISCOSITY	No data available
PH	No data available

### 9.2 Other information

No data available

## 10-STABILITY AND REACTIVITY

### 10.1. Reactivity.

No specific test data on reactivity available for this product or its ingredients.

### 10.2. Chemical stability

Stable under recommended storage and handling conditions. (Section 7)

### 10.3. Possibility of hazardous reactions

The product reacts slowly with water and releases carbon dioxide. Pressure increase in closed containers can result in deterioration, expansion, and in extreme cases, container explosion.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

#### 10.5. Incompatible materials

To prevent heat-related reactions, it should be kept away from the following substances: Oxidizing agents, strong alkalis, strong acids, amines, alcohols, water. Uncontrolled exothermic reactions occur with amines and alcohol.

#### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### 11-TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

There is no data available on the mixture itself.

##### Acute toxicity:

PRODUCT / INGREDIENT NAME	RESULT	TYP	DOSE	EXPOSURE
n-butyl acetate	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	>21,1 mg/l >14.112 mg/kg 10.760 mg/kg	4 hours - -
ethyl acetate	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	>21,1 mg/l >14.112 mg/kg 10.760 mg/kg	4 hours - -
dibutyltin dilaurate	LD50 Oral	Rat	2.071 mg/kg	-
hexamethylene-1,6-diisocyanate homopolymer	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rat Rat	1,50 mg/l >2.000 mg/kg >2.500 mg/kg	4 hours - -
benzensulfonil izosiyanat, 4-metil- solvent naphtha (petroleum) light arom.	LD50 Oral	Rat	>2.600 mg/kg	-
	LC50 Inhalation Vapour LD50 Dermal LD50 Oral	Rat Rabbit Rat	>6.193 mg/l >3.160 mg/kg 3.492 mg/kg	4 hours - -

Result : No data

##### Acute Toxicity Predictions:

WAY	ATE VALUE
Inhalation (vapors)	19,2 mg/l
Dermal	4.738 mg/kg
Oral	4.304 mg/kg

##### Corrosion/irritation

PRODUCT / INGREDIENT NAME	RESULT	TYP	POINT	EXPOSURE	OBSERVATION
dibutyltin dilaurate	Eyes – Moderate Irritant Skin – Severe Irritant	Rabbit Rabbit	- -	24 hours 100 mg 500 mg	- -
hexamethylene-1,6-diisocyanate homopolymer	Eyes – Moderate Irritant Skin – Moderate Irritant	Rabbit Rabbit	- -	- 4 hours	- -

Result : No data

##### Respiratory or skin sensitisation:

PRODUCT / INGREDIENT NAME	WAY OF EXPOSURE	TYP	RESULT
hexamethylene-1,6-diisocyanate homopolymer	Skin Skin	Mouse Guinea Pig	Sensitivity Files Sensitivity Files

Result : No data



Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

**SAFETY DATA SHEET**  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

**Germ cell mutagenicity:**

PRODUCT / INGREDIENT NAME	TEST	EXPERIMENT	RESULT
hexamethylene-1,6-diisocyanate homopolymer	OECD 471 Bacterial reverse Mutation Test	Experiment: In vitro Subject: Bacteria Metabolic activation: +/-	Negative -
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammals-Animal Metabolic activation: +/-	Negative -

Result : No data

**Carcinogenicity:**

No data available

**Reproductive toxicity:**

No data available

**Specific target organ toxicity - single exposure**

PRODUCT / INGREDIENT NAME	CATEGORY	WAY OF EXPOSURE	TARGET ORGANS
n-butyl acetate	Category 3	Not applicable	Narcotic effects
solvent naphtha (petroleum) light arom.	Category 3	Not applicable	Respiratory irritation and narcotic effects
dibutyltin dilaurate	Category 1	Oral	Is not determined
ethyl acetate	Category 3	Not applicable	Narcotic effects
hexamethylene-1,6-diisocyanate homopolymer	Category 3	Not applicable	Respiratory irritation

**Specific target organ toxicity - repeated exposure**

PRODUCT / INGREDIENT NAME	CATEGORY	WAY OF EXPOSURE	TARGET ORGANS
dibutyltin dilaurate	Category 1	Oral	Is not determined

**Aspiration hazard**

Solvent naphtha (petroleum) light arom.: Aspiration Damage - Category 1

**Other informations**

No data available

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

**SAFETY DATA SHEET**  
**COMMISSION REGULATION (EU) 2015/830 of 28 May 2015**

**e-HARDENER**  
**2K HARDENER FAST**

**12-ECOLOGICAL INFORMATION**

**12.1. Toxicity**

There is no data available on the mixture itself. Its entrance to water channels and water resources should be prevented.

PRODUCT / INGREDIENT NAME	RESULT	TYP	EXPOSURE
n-butyl acetate	Acute EC50 647,7 mg/l Acute EC50 44 mg/l Acute LC50 32 mg/l Acute LC50 18 mg/l Acute NOEC 200 mg/l Chronic NOEC 23 mg/l	Desmodesmus subspicatus Daphnia magna Artemia salina Pimephales promelas Desmodesmus subspicatus Daphnia magna	72 hours 48 hours 48 hours 96 hours 72 hours 21 days
solvent naphtha (petroleum) light arom.	Acute EC50 2,9 mg/l Acute EC50 3,2 mg/l Acute LC50 9,2 mg/l Acute NOEC >1 mg/l	Pseudokirchnerella subcapitata Daphnia magna Oncorhynchus mykiss Pseudokirchnerella subcapitata	72 hours 48 hours 96 hours 72 hours
dibutyltin dilaurate	Chronic EC10 0,5 mg/l	Scenedesmus subspicatus	96 hours
hexamethylene-1,6-diisocyanate homopolymer	Acute LC50 mg/l >100 mg/l Acute EC50 100 mg/l	Danio rerio Daphnia magna	48 hours 96 hours
ethyl acetate	Acute EC50 165 mg/l Acute LC50 230 mg/l Acute NOEC >2,4 mg/l	Daphnia magna Pimephales promelas Daphnia magna	48 hours 96 hours 21 days

Result : No data

**12.2 Persistence and degradability**

PRODUCT / INGREDIENT NAME	TEST	RESULT	DOSE	INOCULUM
n-butyl acetate	OECD 301D Ready Biodegradability- Closed Bottle Test	>80 %-5 days	-	-
solvent naphtha (petroleum) light arom.	-	%78-Ready-28 days	-	Fresh Water
hexamethylene-1,6-diisocyanate homopolymer	EU 67/548/EEC Annex V, C.4.E	1% Not readily degradable-28 days	-	-

Result : No data

PRODUCT / INGREDIENT NAME	HALF LIFE IN WATER	PHOTOLYSIS	BIODEGRADABLE
n-butyl acetate	-	-	Readily
solvent naphtha (petroleum) light arom.	-	-	Readily
hexamethylene-1,6-diisocyanate homopolymer	Fresh water 7.7 days, 23 oC	-	Not Readily

**12.3 Bioaccumulative potential**

PRODUCT / INGREDIENT NAME	LOGPOW	BCF	POTANTIAL
n-butyl acetate	2,30	-	Low
ethyl acetate	0,68	30	Low
dibutyltin dilaurate	4,44	2,91	Low
hexamethylene-1,6-diisocyanate homopolymer	5,54	367,7	Low

**12.4 Mobility in soil**

Soil / Water Distribution: No data

Mobility: No data

**12.5 Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

SAFETY DATA SHEET  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

12.6 Other adverse effects  
No data available

## 13-DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### Disposal methods:

Dispose of waste in an appropriate treatment and disposal facility in accordance with applicable laws and regulations and product specifications at the time of disposal. The product or the contaminated materials must be delivered to a licensed waste contractor in accordance with the regulations, within the scope of the Waste Management Regulation (02.04.2015 RG: 29314).

#### Contaminated Packaging:

Contaminated packages should be as empty as possible. Dispose of waste in an appropriate treatment and disposal facility, in accordance with applicable laws and regulations and product specifications at the time of disposal. Recycle after cleaning or dispose of at an authorized place.

This product and its container must be disposed of in a safe way. Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to protect against irritation on the skin of the neck and wrists that may result from contact with dust. There may be product residue in empty containers or other packaging. Vapor from product residues can create an easily flammable or explosive atmosphere in the container. Do not cut, weld, or grind used containers unless the interior is thoroughly cleaned. Do not allow spilled material to spread, run or come in contact with soil, waterways, drains.

## 14-TRANSPORT INFORMATION

### 14.1 UN number

ADR/RID: 1263 IMDG: 1263 IATA: 1263



### 14.2 UN proper shipping name

ADR/RID: PAINT AND PAINT RELATED MATERIAL  
IMDG: PAINT AND PAINT RELATED MATERIAL  
IATA: PAINT AND PAINT RELATED MATERIAL

### 14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

### 14.4 Packing group

ADR/RID: II IMDG: II IATA: II

### 14.5 Environmental hazards

Marine pollutant: no

### 14.6 Special precautions for user

ADR: Hazard Identification Number: 33  
Limited Quantity Limit: 5L  
Tunnel Code: (D/E)

IMDG: Ems: F-E, S-E

IATA: Passenger and Cargo Aircraft: Quantity Limit: 5 L - Packing Instruction: 353  
Cargo Aircraft Only: Quantity Limit: 10 L - Packing Instruction: 364

Release date: 25.01.2021  
Preparation date: 25.01.2021  
SDS No: PLOEHFST  
Rev.01

**SAFETY DATA SHEET**  
COMMISSION REGULATION (EU) 2015/830 of 28 May 2015

**e-HARDENER**  
**2K HARDENER FAST**

Quantity Limit for Passenger Aircraft: 1 L - Packing Instruction: Y341  
Special Provisions: A3, A72

## 15-REGULATORY INFORMATION

### 15.1 Substance, health and environmental legislation

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## 16-OTHER INFORMATION

### Information Resources

This SDS is based on the information and documents received from the product owner company. The SDS preparer and the company cannot be held responsible for the material damages and moral negativities that the product owner company may encounter due to the incomplete or incorrect arrangement of the SDS.

Certificate Number: TÜV / 11.15.01

Certificate Validity: 13.05.2024

Edited: Ayşen Eda KABASAKAL - Certified Safety Data Sheet Editor

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### Abbreviations;

WEL: Workplace Exposure Limit  
TWA: Workplace Exposure Limit  
STEL: Short term exposure limit  
DNEL: Derived No-Effect Level  
DMEL: Derived minimum effect level  
PNEC: Predicted No-Effect Concentration  
ATE: Acute Toxicity Estimation  
REACH No: Number of Registration, Evaluation, Authorization and Restriction of Chemicals  
EC No: European Community Number  
CAS: Chemical Abstracts Service  
ADR: European Agreement on the International Carriage of Dangerous Goods by Road  
RID: European Agreement on the International Transport of Dangerous Goods by Rail  
IMDG: International Maritime Dangerous Goods  
IATA: International Air Transport Association  
LC50: substance concentration causing 50% (half) death in the test animal group  
LD50: Dose of substance causing 50% (half) death in test animal group (Median Lethal Dose)  
PBT: Persistent, Bioaccumulative and Toxic Substance  
vPvB: Very Persistent, Very Bioaccumulative  
EUH: EU Hazard Statements

### Full text of H statements found in Chapters 2 and 3;

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

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**SAFETY DATA SHEET**  
**COMMISSION REGULATION (EU) 2015/830 of 28 May 2015**

**e-HARDENER**  
**2K HARDENER FAST**

H304: May be fatal if swallowed and enters airways.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H341: Suspected of causing genetic defects. (oral)  
H360: May damage fertility or the unborn child. (oral)  
H370: Causes damage to organs (oral)  
H372: Causes damage to organs through prolonged or repeated exposure.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects  
H411: Toxic to aquatic life with long lasting effects.  
EUH066: Repeated exposure may cause skin dryness or cracking.

**DISCLAIMER**

This information relates only to a specific specific substance and should not be used in a composition or any process in which the same substance is used in combination with other substances. The information provided in this document is, to the highest level of knowledge and belief of the company, accurate and reliable information as of the date specified. However, no warranty or representation of any kind is made for its accuracy, reliability and completeness. It is the user's own responsibility to be satisfied that this information is suitable for his own use. This information is based on our current knowledge and is intended to define the health, safety and environmental requirements of the product. Therefore, this information should not be interpreted as a guarantee of any feature of the product. The data contained in the form are based on our current knowledge and are intended to describe the product in terms of safety requirements. The information given cannot be understood as giving any guarantee for any special or general specification / application and we do not accept any responsibility as the manufacturer company (sds owner company). The responsibility for the intended use of the product and its suitability for the method used belongs to the user. Any loss / damage arising from the use of the information in the form will not be accepted by us. In any case, our general sales conditions apply.

**Ayşen Eda KABASAKAL**  
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