SAFETY DATA SHEET

FineR UH

Compilation date: 18/04/2016

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Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FineR UH

Synonyms: MODIFIED AMINE-BASED CURING AGENT

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

Use of substance / mixture: Curing agent for epoxy resins. Industrial use.

1.3. Details of the supplier of the safety data sheet

Company name: Fine Wooden Creations

Kwitnaca 4A

01-928 Warsaw

Tel: +48 534 005 534

Email: info@finewoodencreations.com

1.4. Emergency telephone number

Emergency tel: +112 (for the public)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H302+332; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1A: H317

Most important adverse effects: Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H302+332: Harmful if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Hazard pictograms: GHS05: Corrosion

GHS07: Exclamation mark

[cont...]

Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310: Immediately call a POISON CENTER/doctor.

P405: Store locked up.

P273: Avoid release to the environment.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BENZYL ALCOHOL. - REACH registered number(s): 01-2119492630-38-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-859-9	100-51-6	-	Acute Tox. 4: H332; Acute Tox. 4: H302; Eye Irrit. 2: H319	30-45%

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE. - REACH registered number(s): 01-2119965165-33-0021

500-101-4	38294-64-3	-	Skin Corr. 1B: H314; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 3: H412	30-45%

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE. - REACH registered number(s): 01-2119514687-32-XXXX

220-666-8	2855-13-2	-	Acute Tox. 4: H302+312; Skin Corr. 1B: H314; Skin Sens. 1A: H317; Aquatic Chronic 3: H412; Eye Dam. 1: H318	3-15%

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE). - REACH registered number(s): 01-2119965162 -39-0009

[cont...]

500-302-7	113930-69-1	-	Skin Corr. 1B: H314; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Sens. 1: H317	3-15%

M-PHENYLENEBIS(METHYLAMINE). - REACH registered number(s): 01-2119480150-50-XXXX

216-032-5	1477-55-0	-	Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1B: H317; Aquatic Chronic 3: H412; Acute Tox. 4: H332; -: EUH071	3-15%

SALICYLIC ACID. - REACH registered number(s): 01-2119486984-17-XXXX

200-712-13	69-72-7	-	Acute Tox. 4: H302; Eye Dam. 1: H318; Repr. 2: H361d	<3%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

[cont...]

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Carbon dioxide. Water spray. Water fog. Dry chemical powder. Alcohol or polymer foam. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

[cont...]

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

BENZYL ALCOHOL.

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	22 mg/m3	Workers	Systemic
DNEL	Dermal (repeated dose)	8 mg/kg bw/d	Workers	Systemic
DNEL	Inhalation (repeated dose)	5.4 mg/m3	General Population	Systemic
DNEL	Oral (repeated dose)	4 mg/kg bw/d	General Population	Systemic
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0.1 mg/l	-	-
PNEC	Fresh water sediments	5.27 mg/kg sed	-	-
PNEC	Marine sediments	0.0527 mg/kg sed	-	-
PNEC	Soil (agricultural)	0.456 mg/kg sed	-	-

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

Type	Exposure	Value	Population	Effect
PNEC	Fresh water (intermittent releases)	0.111 mg/l	-	-
PNEC	Marine water	0.001 mg/l	-	-
PNEC	Microorganisms in sewage treatment	10 mg/l	-	-
PNEC	Food chain	1 mg/kg food	-	-
DNEL	Inhalation (repeated dose)	0.493 mg/m3	Workers	Systemic
DNEL	Dermal (repeated dose)	0.14 mg/kg bw/day	Workers	Systemic

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

Type	Exposure	Value	Population	Effect
PNEC	Fresh water	0.06 mg/l	-	-
PNEC	Marine water	0.006 mg/l	-	-
PNEC	Fresh water sediments	5.784 mg/kg sed	-	-
PNEC	Marine sediments	0.578 mg/kg sed	-	-
PNEC	Soil (agricultural)	1.121 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	3.18 mg/l	-	-

[cont...]

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE).

Type	Exposure	Value	Population	Effect
PNEC	Fresh water (intermittent release)	0.015 mg/l	-	-
PNEC	Marine water	0.001 mg/l	-	-
PNEC	Microorganisms in sewage treatment	8.889 mg/l	-	-
PNEC	Food chain	3.33 mg/kg food	-	-
DNEL	Inhalation (repeated dose)	0.493 mg/m3	Workers	Systemic
DNEL	Dermal (repeated dose)	0.14 mg/kg bw/day	Workers	Systemic

M-PHENYLENEBIS(METHYLAMINE).

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1.2 mg/m3	Workers	Systemic
DNEL	Dermal	0.33 mg/kg bw/d	Workers	Systemic
PNEC	Fresh water	0.094 mg/l	-	-
PNEC	Marine water	0.0094 mg/l	-	-
PNEC	Fresh water sediments	0.43 mg/kg sed	-	-
PNEC	Marine sediments	0.043 mg/kg sed	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Gloves (alkali-resistant). Breakthrough time of the glove material > 8 hours.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation. The floor of the storage room must be impermeable to prevent the escape of liquids.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Pale yellow

Odour: Aminic

Evaporation rate: Negligible

Oxidising: No data available.

Solubility in water: No data available.

Viscosity value: 150-450

Viscosity test method: Dynamic viscosity @ 25°C, mPa.s

Boiling point/range°C: >200 **Melting point/range°C:** No data available.

Flammability limits %: lower: No data available. **upper:** No data available.

Flash point°C: >100

[cont...]

Part.coeff. n-octanol/water: No data available.

Autoflammability°C: >360

Vapour pressure: 0.1 mbar @ 20°C

Relative density: 1.02 @ 23°C

pH: No data available.

VOC g/l: No data available.

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Direct sunlight.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

BENZYL ALCOHOL.

DERMAL	RBT	LD50	>2000	mg/kg
IVN	RAT	LD50	53	mg/kg
ORL	RAT	LD50	1620	mg/kg
VAPOURS	RAT	4H LC50	>10	mg/l

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

DERMAL	HMN (in vitro)	OECD 431	Corrosive	-
ORAL	RAT	OECD 408	NOAEL: 10	mg/kg bw/day

[cont...]

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

DERMAL	RAT	LD50	> 2000	mg/kg
ORAL	RAT	LD50	1030	mg/kg
VAPOURS	RAT	4H LC50	> 5.01	mg/l

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE).

DERMAL	HMN (in vitro)	OECD431	Corrosive	-
ORAL	RAT	OECD408	NOAEL: 10	mg:kg bw/d

M-PHENYLENEBIS(METHYLAMINE).

DERMAL	RBT	LD50	>3100	mg/kg
DUST/MIST	RAT	4H LC50	1.34	mg/l
ORAL	RAT	LD50	930	mg/kg

SALICYLIC ACID.

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	891	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	-	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: May cause sensitization by skin contact.

Section 12: Ecological information

12.1. Toxicity

[cont...]

Hazardous ingredients:

BENZYL ALCOHOL.

ALGAE	72H IC50	700	mg/l
BLUEGILL (Lepomis macrochirus)	96H LC50	10000	µg/l
Scenedesmus Subspicatus	96H EC50	640	mg/l

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

Daphnia magna	48H EC50	11.1	mg/l
FISH	48H LC50	70.7	mg/l

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE.

Bacteria	18H EC10	1120	mg/l
Daphnia magna	48H EC50	23	mg/l
FISH (Leuciscus Idus)	96H LC50	110	mg/l
Scenedesmus Subspicatus	72H EC50	>50	mg/l

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH M-PHENYLENEBIS(METHYLAMINE).

Daphnia magna	48H EC50	1.46	mg/l
FISH	96H LC50	64.0	mg/l

M-PHENYLENEBIS(METHYLAMINE).

Daphnia magna	48H EC50	15.2	mg/l
FISH	96H LC50	87.6	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H EC50	20.3	mg/l

SALICYLIC ACID.

FISH	96H LC50	1380	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

[cont...]

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: Not applicable.

Waste code number: 07 07 08

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN2735

14.2. UN proper shipping name

Shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(Isophoronediamine, mixture)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No **Marine pollutant:** No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the mixture by the supplier.

[cont...]

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Sections modified since last version:

1

2

3

8

11

12

Phrases used in s.2 and s.3: EUH071: Corrosive to the respiratory tract.

H302: Harmful if swallowed.

H302+312: Harmful if swallowed or in contact with skin.

H302+332: Harmful if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H361d: Suspected of damaging the unborn child.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legend to abbreviations: PNEC = predicted no effect concentration

DNEL = derived no effect level

LD50 = median lethal dose

LC50 = median lethal concentration

LDLO = lethal dose low

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

[cont...]

MAM = mammal

PGN = pigeon

IVN = intravenous

IPR = intraperitoneal

SCU = subcutaneous

ORL = oral

SKN = skin

DRM = dermal

OCC = ocular/corneal

OPT = optical

ING = ingestion

INH = inhalation

PCP = physico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.