Printing date 12/17/2015 Reviewed on 12/17/2015

1 Identification

- · Product identifier
- · Trade name: MoldWiz® F-57L/NA
- · Application of the substance / the mixture Release agent
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Suter Kunststoffe AG

Aefligenstrasse 3

CH-3312 Fraubrunnen

info@swiss-composite.ch

- · Information department: Product safety department
- · Emergency telephone number:

Tox-Info-Suisse Tel. Nr. 145

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02

2 GHS07

GHS0

- · Signal word Danger
- · Hazard-determining components of labeling:

toluene

Naphtha (petroleum), light alkylate

Naphtha (petroleum), hydrotreated heavy acetone

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

(Contd. on page 2)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 1)

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Specific treatment (see on this label).

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

Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

In case of fire: Use for extinction: CO2, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 3

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

		(Contd. of page 2)
· Dangerous	components:	
108-88-3	toluene	25-50%
64741-66-8	Naphtha (petroleum), light alkylate	25-50%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	10-<25%
67-64-1	acetone	≤10%
64742-47-8	Distillates (petroleum), hydrotreated light	2.5-<10%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

US

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 3)

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with	limit valu	es that require	monitoring at	the workplace:
r o in r				

108-88-3 toluene

PEL Long-term value: 200 ppm

Ceiling limit value: 300; 500* ppm

*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

TLV Long-term value: 75 mg/m³, 20 ppm

BEI

67-64-1 acetone

PEL Long-term value: 2400 mg/m³, 1000 ppm

REL Long-term value: 590 mg/m³, 250 ppm

TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm

BEI

(Contd. on page 5)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 4)

· Ingredients with biological limit values:

108-88-3 toluene

BEI 0.02 mg/L

Medium: blood

Time: prior to last shift of workweek

Parameter: Toluene

0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene

0.3 mg/g creatinine Medium: urine Time: end of shift

Parameter: o-Cresol with hydrolysis (background)

67-64-1 acetone

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Color: Light yellow
Odor: Aliphatic
Odor threshold: Not determined.

pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 71 - 93 C

• Flash point: $< 23 \, ^{\circ}C \, (< 73 \, ^{\circ}F)$

· Flammability (solid, gaseous): Not applicable.

· Percentage Volatile 93 %

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

Lower:Not determined.Upper:Not determined.

• Vapor pressure at 20 °C (68 °F): 233 hPa (175 mm Hg)

Density: Not determined.Relative density 0.780

Vapor density Not determined.Evaporation rate Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

Viscosity: < 50 cps @ 25C
Dynamic: Not determined.
Kinematic: Not determined.

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability The product is stable under recommended storage conditions.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

(Contd. on page 7)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 6)

- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

i i cui c tout	Acut water.					
· LD/LC50 v	· LD/LC50 values that are relevant for classification:					
108-88-3 te	108-88-3 toluene					
Oral	LD50	5000 mg/kg (rat)				
Dermal	LD50	12124 mg/kg (rabbit)				
Inhalative	LC50/4 h	5320 mg/l (mouse)				
64741-66-8	64741-66-8 Naphtha (petroleum), light alkylate					
Oral	LD50	5001 mg/kg (rat) (OECD Guideline 403)				
Dermal	LD50	2001 mg/kg (rabbit) (OECD Guideline 402)				
Inhalative	LC50/4 h	22 mg/l (rat) (OECD Guideline 401)				
64742-48-	64742-48-9 Naphtha (petroleum), hydrotreated heavy					
Oral	LD50	>5000 mg/kg (rat)				
Dermal	LD50	>5000 mg/kg (rab)				

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (Inte	rnational Agency for Research on Cancer)	
108-88-3	toluene	3
67-63-0	propan-2-ol	3
9002-84-0	Polytetrafluoroethylene	3
· NTP (Natio	onal Toxicology Program)	
None of the	ingredients is listed.	
· OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

64741-66-8 Naphtha (petroleum), light alkylate

LL50 18.4 mg/l (Oncorhynchus mykiss (rainbow trout))

- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 8)

(Contd. of page 7)

Safety Data Sheet acc. to OSHA HCS

Reviewed on 12/17/2015 Printing date 12/17/2015

Trade name: MoldWiz® F-57L/NA

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- $\cdot \textit{Other adverse effects} \ \textit{No further relevant information available}.$

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
· UN-Number · DOT, IMDG, IATA	UN1866
· UN proper shipping name · DOT, IATA · IMDG	Resin solution RESIN SOLUTION, MARINE POLLUTANT
· Transport hazard class(es) · DOT, IATA · Class	3 Flammable liquids
· Class	3 Flammable liquids
· Packing group · DOT, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	Symbol (fish and tree)
· Special precautions for user · EMS Number:	Warning: Flammable liquids F-E, <u>S-E</u>
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, II, ENVIRONMENTALI HAZARDOUS

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 8)

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara

· Section 313 (Specific toxic chemical listings):

108-88-3 toluene

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act) (Substances not listed):

All ingredients are listed.

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

108-88-3 toluene

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

- · US State Regulations
- · Connecticut Hazardous Air Pollutants HLVs (30 min)

None of the ingredients is listed.

· Connecticut - Hazardous Air Pollutants - HLVs (8 hr)

None of the ingredients is listed.

· Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

None of the ingredients is listed.

· Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

None of the ingredients is listed.

· Occupational Exposure Limits - TWAs

None of the ingredients is listed.

· Michigan - Occupational Exposure Limits - Skin Designations

None of the ingredients is listed.

· Michigan - Occupational Exposure Limits - TWAs

None of the ingredients is listed.

· Minnesota - Hazardous Substance List

None of the ingredients is listed.

· Minnesota - Permissible Exposure Limits - Skin Designations

None of the ingredients is listed.

· Minnesota - Permissible Exposure Limits - TWAs

None of the ingredients is listed.

· New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

None of the ingredients is listed.

· New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

None of the ingredients is listed.

· New York - Occupational Exposure Limits - Skin Designations

None of the ingredients is listed.

· New York - Occupational Exposure Limits - TWAs

None of the ingredients is listed.

(Contd. on page 10)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 9) · North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour None of the ingredients is listed. · North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour None of the ingredients is listed. · Oregon - Permissible Exposure Limits - TWAs None of the ingredients is listed. · Tennessee - Occupational Exposure Limits - Skin Designations None of the ingredients is listed. · Tennessee - Occupational Exposure Limits - TWAs None of the ingredients is listed. · Texas - Effects Screening Levels - Long Term None of the ingredients is listed. · Texas - Effects Screening Levels - Short Term None of the ingredients is listed. · Vermont - Permissible Exposure Limits - Skin Designations None of the ingredients is listed. · Vermont - Permissible Exposure Limits - TWAs None of the ingredients is listed. · Washington - Permissible Exposure Limits - Skin Designations None of the ingredients is listed. · Washington - Permissible Exposure Limits - STELs None of the ingredients is listed. · Washington - Permissible Exposure Limits - TWAs None of the ingredients is listed. Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet None of the ingredients is listed. · Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet None of the ingredients is listed. · Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or None of the ingredients is listed. · Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 None of the ingredients is listed. · Carcinogenic categories · EPA (Environmental Protection Agency) 108-88-3 toluene IIΙ 67-64-1 acetone · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 11)

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 10)

· Hazard pictograms







GHS02

GHS07

· Signal word Danger

· Hazard-determining components of labeling:

Naphtha (petroleum), light alkylate

Naphtha (petroleum), hydrotreated heavy

acetone

· Hazard statements

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves / eye protection / face protection.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF SWALLOWED: Immediately call a POISON CENTER/doctor.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

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

Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

Do NOT induce vomiting.

In case of fire: Use for extinction: CO2, powder or water spray.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The components of this product are listed on the USA (TSCA) inventory.

The components of this product are listed on the Canadian (DSL) inventory.

The components of this product are listed on the European (EINECS) inventory.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing date 12/17/2015 Reviewed on 12/17/2015

Trade name: MoldWiz® F-57L/NA

(Contd. of page 11)

16 Other information

Disclaimer: This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review recommendations in the specific context of the intended use and determine whether they are appropriate.

- · Contact: info@axelplastics.com
- · Date of preparation / last revision 12/17/2015 / -
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

 $DOT: \ US \ Department \ of \ Transportation$

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

· * Data compared to the previous version altered.

US