



Technical Data Sheet [TDS]

AAT-583 Professional Wood Flooring Adhesive

AAT-583 is an alcohol based, high-strength adhesive for professional wood flooring installation. It contains no chlorinated solvents or other materials harmful to one's health. It is ozone and environmentally safe.

The adhesive spreads easily and has a non-slump formula that will help insure contact and adhesive transfer. It allows fast installation even with complicated patterns due to its strong green grab. There is no flash time required, so installation can begin immediately. Rolling is neither required nor recommended. It offers superior flexibility and is designed to keep the flooring in place, yet allow for normal movement during seasonal changes to the flooring.

Prior to the start of the installation the installer must determine that the job-site conditions meet or exceed all applicable standards of the wood flooring manufacturer and AAT. For the best results, we suggest using a National Wood Flooring Association Certified Professional installer. Installation of hardwood flooring should be one of the last jobs of any construction project. The sub-floor should be prepared according to the standards and practices set forth in the most recent version of the document ASTM F-710. AAT-583 is not to be used over nonporous sub-floors.

For assistance with specific sub-floors and exotic wood species please contact our Technical Services Department. DO NOT install solid wood flooring below grade. AAT-583 is not for use with wood flooring manufactured from Teak, Kempas or Bamboo. AAT-583 cannot be used if adhesive removers, solvent or chemical cleaners have been used. For a copy of the Limited Lifetime Warranty please contact Customer Service.

Site Conditions:

The building should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place.

Landscaping should be sufficiently completed to direct water away from the building. Gutters and downspouts should be in place.

All concrete, masonry, plastering, drywall and other wet work should be completed and thoroughly dry prior to beginning the installation. Texturing and paint primer coats should be completed. Where possible the installation of the base molding should not take place until after the wood flooring has been installed.

Adequate ventilation should be available. The HVAC system for the building should be operating for a minimum of 72 hours prior to the start of the installation. The flooring should not be exposed to extremes of temperature, humidity or moisture. The installation site should have a consistent air temperature of 50°F-90°F and relative humidity levels should be 30% - 80% for a minimum of 72 hours prior to the start of the installation. The temperature of the sub-floor should be between 65°F-85°F. These conditions must be maintained to ensure long-term success and performance of the wood flooring installation.

Basements and crawl spaces should be dry and adequately ventilated. Sub-floors must be checked for moisture content and emissions using industry accepted methods. Crawl spaces should meet local building codes regarding minimum heights, cross ventilation and the use of vapor retarders.

Sub-floors must be free from dust, dirt, grease, wax, curing agents, sealers, oil and any other bond inhibiting substances. The sub-floor should be flat within 3/16" in 10' or 1/8" in 6'. Please note that popping wood floors or a hollow spot(s) in a hardwood flooring installation is not an adhesive related issue. Rather, these conditions result from the lack of sufficient sub-floor preparation.

Prior to the application of AAT-583, sub-floors must be tested in strict accordance to the most recent versions of ASTM F-1869 and F-2170. Both testing protocols must be performed in order to provide the most accurate view of the sub-floor's condition. Sub-floors of lightweight concrete must be tested in strict accordance to the most recent version of ASTM F-2170. The placement of calcium chloride kits and humidity probes must follow the ASTM standards for proper locations and the correct quantity of test sites. These and other tests may be performed by AAT in the event of a warranty claim.

Sub-floors on and below grade must be protected from ground moisture with a functioning and intact Class A vapor retarder that conforms to the requirements of the most current version of ASTM E-1745. This vapor retarder must be directly beneath, and in contact with, the slab. Concrete must be dry with moisture emission rates 3 lbs. /1000 sq ft/24 hrs, as measured by the Anhydrous Calcium Chloride Test, ASTM F-1869. Lightweight concrete and gypsum cement can only be tested according to the requirements of ASTM F-2170. For gypsum cement, densified and lightweight concrete the *in situ* relative humidity should not exceed 75%. Before any moisture testing begins, the slab must be cured for a minimum of 30 days and the HVAC system must be operating for a minimum of 72 hours. Fill low areas with a polymer-modified portland cement leveling or patching compound. Leveling and patching compounds must be tested to ensure they are properly cured and within the manufacturer's specified requirements before proceeding with the installation. Mechanical surface profiling is the preferred sub-floor preparation method. Mechanically profile the sub-floor to a rough-grit sandpaper texture. Sanding or scouring with open paper or a titanium disk is preferred. All curing agents [topical and admix], adhesives, paints, varnishes, oils, waxes, dust, dirt and any other bond inhibiting substances must be removed. The removal of bond inhibiting substances must be by mechanical means: sanding, shot or bead blasting. AAT-583 cannot be used if adhesive removers, solvent or chemical cleaners have been used. Lightweight concrete and gypsum cement must be primed with AAT-570 Acrylic Primer before applying the adhesive.

For wood joist systems the sub-floor should be structurally sound, free of loose panels or boards, and free of protruding fasteners. Moisture content should be within normal industry standards for the areas average environmental conditions. Underlayment panels should be fastened according to the manufacturer's specifications. All panel seams should be sanded level and prepared according to the manufacturer's instructions. Sanded and other very porous substrates must be primed with AAT-570 Acrylic Primer. Minimum sub-flooring: 5/8" CDX plywood sub-floor/underlayment (Exposure 1), maximum 16" o.c. construction. Install the flooring perpendicular to the floor joists. Moisture content of wood sub-floors should be below 6-9% when measured with a moisture meter for wood. Moisture content of the sub-floor and the wood flooring should vary no more than 4%. Do NOT use AAT-583 over AdvanTech® sub-floor panels.

Wood flooring may be installed over full spread, permanently bonded acoustic cork. Cork thickness should not exceed 1/4"(6mm) and should have a density between 11.4 and 13 lb. /cubic foot. Install cork in accordance with manufacturer's recommendations. Acoustic cork should be pure cork with a polyurethane binder.

Slabs with a radiant heating system are acceptable sub-floors for installing wood floors with the following stipulations. The heating system should be fully operational for a minimum of seven days prior to the installation. The system should be shut down to allow the slab to cool down to room temperature before applying the adhesive. Immediately after completing the installation turn the system back on and set to normal temperature. The sub-floor cannot exceed 85°F throughout the life of the installation. Check with the system manufacturer to determine that the system is designed for the desired R-rating for wood flooring. Failure to ensure proper system design can result in excessive heat damage and wood shrinkage.

INSTALLATION:

NOTE: Prior to the beginning of the installation the wood flooring, adhesive and sub-floor must be acclimated in an enclosed building with the HVAC operating for a minimum of 72 hours. Wood flooring must be exposed to the air when being acclimated. AAT-583 is not to be used over nonporous sub-floors.

AAT-583 is **flammable** and should be transported and stored in accordance with all local, state and federal regulations. AAT-583 is intended for professional use only.

1. Follow wood flooring manufacturer’s instructions for acclimation, layout, requirements for expansion space and any special precautions for the installation.
2. Apply adhesive with the recommended trowel. (See below) A 100% adhesive transfer rate to the wood flooring is required. There is no flash time, so installation should begin immediately. Lay the flooring into the adhesive, correctly position it and press down firmly. Rolling is neither required nor recommended.
3. Occasionally lift a piece of flooring to assure that a 100% adhesive transfer is achieved.

Open Times	+50°F	+70°F	+90°F
30% Relative Humidity	25 minutes	23 minutes	20 minutes
50% Relative Humidity	35 minutes	30 minutes	25 minutes
80% Relative Humidity	40 minutes	35 minutes	30 minutes

4. Leave appropriate expansion space around the perimeter of the room and at any stationary objects.
5. If plank is bowed or warped, use weights or nails to ensure flooring is in full contact with the adhesive during the adhesive curing process. Excessively bowed or warped planks should be culled prior to installing the flooring.
6. AAT-583 achieves a firm set after 12 hours. Light foot traffic can be allowed after this time. The placement of heavy furniture and fixtures can begin after 72 hours.
7. Any adhesive on the surface of the flooring should be cleaned up immediately for best results.

TROWEL RECOMMENDATIONS:**

Engineered Wood Floors
3/16" X 1/4" x 5/16" V notch
50-60 sq ft/gal

1/2" - 3/4" Solid Plank [up to 3"x36"], 1/2" – 3/4" Solid Shorts, Strip Flooring 1/2" – 3/4"
3/16" x 3/16" x 3/16" □ notch
30-40 sq. ft/gal

Parquet
1/8" x 1/8" x 1/8" □ notch
70-80 sq. ft. /gal.

Acoustical Underlayments
3/32" x 3/32" x 3/32" V notch
100-110 sq. ft./gal.

****Note: Trowel Notch dimensions are Width x Depth x Separation****

SPECIFIC TECHNICAL DATA:

1. Flammable; no chlorinated solvents, no isocyanates
2. Clean-Up: Remove adhesive with acetone. Do not apply the acetone directly to the flooring material. Test on a scrap piece of flooring to ensure that the solvent does not affect the floor's finish.
3. Packaging: 3 gallon pails, 48 per pallet.
4. Shelf-Life: Up to 24 months from date of manufacture in the original, un-opened container when stored at 70°F.
5. Freeze-Thaw Stable.

June 29, 2017

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

1 Identification

- **Product identifier**
- **Trade name:** AAT-583
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Distributor:**
Advanced Adhesive Technologies
424 S Spencer St
Dalton, GA 30721
Phone 800-AAT-GLUE
Fax 706-278-6207
- **Emergency telephone number:**
CHEMTREC 1-800-424-9300 (USA) 1-703-527-3887 (International)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Flammable

Flammable.

Vapours may cause drowsiness and dizziness.

- *Information concerning particular hazards for human and environment:*

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

- *Classification system:*

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **GHS label elements**

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

- *Hazard pictograms*



GHS02 GHS07

- *Signal word* Danger

(Contd. on page 2)

US

Safety Data Sheet



acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 1)

- **Hazard statements**
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
- **Precautionary statements**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P280 Wear eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**

 - Health = 1
 - Fire = 3
 - Reactivity = 0
- **WHMIS-ratings (scale 0 - 4)**

 - HEALTH 1 Health = 1
 - FIRE 3 Fire = 3
 - REACTIVITY 0 Reactivity = 0
- **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.

- **Dangerous components:**

	Distillates (petroleum), steam cracked, polymers with acid-treated coal solvent naphtha and phenol	10-25%
79-20-9	methyl acetate	2.5-10%
67-64-1	acetone	2.5-10%
1332-58-7	Kaolin	2.5-10%
64-17-5	ethanol	2.5-10%
27138-31-4	Dipropylenglycol dibenzoat	≤ 2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

US
(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complications.
- **After skin contact:** Generally the product does not irritate the skin.
- **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:**
CO2, sand, extinguishing powder. Do not use water.
- **Water**
Water with full jet
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
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).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

See Section 13 for disposal information.

(Contd. of page 3)

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Prevent impact and friction.
- **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 values that require monitoring at the workplace:**

79-20-9 methyl acetate

PEL	Long-term value: 610 mg/m ³ , 200 ppm
REL	Short-term value: 760 mg/m ³ , 250 ppm Long-term value: 610 mg/m ³ , 200 ppm
TLV	Short-term value: 757 mg/m ³ , 250 ppm Long-term value: 606 mg/m ³ , 200 ppm

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI

1332-58-7 Kaolin

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 2* mg/m ³ E; as respirable fraction

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 4)

64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm

- *Ingredients with biological limit values:*

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.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

- *Breathing equipment:*

- Not necessary if room is well-ventilated.
- Use suitable respiratory protective device in case of insufficient ventilation.

- *Protection of hands:* Not required.

- *Material of gloves:* Butyl rubber, BR

- *Penetration time of glove material*

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

- *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:*

<i>Form:</i>	Fluid
<i>Color:</i>	Beige
<i>Odor:</i>	Solvent-like
<i>Odour threshold:</i>	Not determined.

- **pH-value at 20 °C (68 °F):** 7

- **Change in condition**

- Boiling point/Boiling range:* 55 °C (131 °F)

- **Flash point:** -19 °C (-2 °F)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 5)

- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 425 °C (797 °F)
- *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:* 3.1 Vol %
 - Upper:* 16.0 Vol %
- **Vapor pressure at 20 °C (68 °F):** 220 hPa (165 mm Hg)
- **Density at 20 °C (68 °F):** 1.5 g/cm³ (12.518 lbs/gal)
- *Relative density* Not determined.
- *Vapour density* Not determined.
- *Evaporation rate* Not determined.
- **Solubility in / Miscibility with**
 - Water:* Partly miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C (68 °F):* 69100 mPas
 - Kinematic:* Not determined.
- **Solvent content:**
 - Organic solvents:* 21.4 %
 - Water:* 1.3 %
 - VOC Content:* 5.1 %
 - 5.00 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- *Thermal decomposition / conditions to be avoided:*
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

US

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 6)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- *LD/LC50 values that are relevant for classification:*

Distillates (petroleum), steam cracked, polymers with acid-treated coal solvent naphtha and phenol		
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Oral	LD50	> 16000 mg/kg (rat)
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79-20-9 methyl acetate		
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Oral	LD50	6970 mg/kg (rat)
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67-64-1 acetone		
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Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (Ratte)
Inhalative	LC50/48 h	76 mg/l (rat)

64-17-5 ethanol		
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Oral	LD50	5560 mg/kg (mee)
		3450 mg/kg (mou)
		7060 mg/kg (rat)
		6300 mg/kg (rabbit)
Inhalative	LC50/48 h	20000 mg/l (rat)

- *Primary irritant effect:*

- *on the skin:* No irritant effect.

- *on the eye:* No irritating effect.

- *Sensitization:* No sensitizing effects known.

- **Additional toxicological information:**

- *Carcinogenic categories*

- *IARC (International Agency for Research on Cancer)*

9003-20-7	Polyvinylacetat	3
64-17-5	ethanol	1

- *NTP (National 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:** No further relevant information available.

- **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)

-US-

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 7)

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
If product has aged or solidified conventional means of disposal are acceptable.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1133
- **UN proper shipping name**
- **DOT** Adhesives
- **ADR** 1133 Adhesives, special provision 640H
- **IMDG, IATA** ADHESIVES
- **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

- **ADR, IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids
- **Danger code (Kemler):** 33

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583

(Contd. of page 8)

- **EMS Number:** F-E,S-D
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

Transport/Additional information:
ADR

- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

IMDG

- **Limited quantities (LQ)** 5L
- **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":** UN1133, Adhesives, special provision 640H, 3, III

15 Regulatory information

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

- **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

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:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

64-17-5 ethanol

- **Canadian Ingredient disclosure list**

- **Limit 0,1%**

64-17-5 ethanol

- **Limit 1%**

79-20-9 methyl acetate

(Contd. on page 10)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/11/2017

Reviewed on 10/11/2017

Trade name: AAT-583*(Contd. of page 9)*

67-64-1 acetone

- **Carcinogenicity categories**

- **EPA (Environmental Protection Agency)**

67-64-1 acetone

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- **TLV (Threshold Limit Value established by ACGIH)**

67-64-1 acetone

A4

1332-58-7 Kaolin

A4

64-17-5 ethanol

A3

- **MAK (German Maximum Workplace Concentration)**

64-17-5 ethanol

5

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **National regulations:**

- **Technical instructions (air):**

Class	Share in %
Wasser	≤ 2,5
NK	10-25

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Technical Department

- **Contact:** +1-800-228-4583

- **Date of preparation / last revision** 10/11/2017 / 24

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

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

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