Safety Data Sheet
APAC 616
Safety Data Sheet dated: 4/27/2015 - version 1
Date of first edition: 4/27/2015

1. IDENTIFICATION

Product identifier
Mixture identification:
Trade name: APAC 616
Recommended use of the chemical and restrictions on use
Recommended use: Sealer
Restrictions on use: N.A.
Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party
Company: MAPEI CORP. (USA and Puerto Rico)
1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA
Emergency 24 hour numbers:
(USA) CHEMTREC 1-800-424-9300
(Canada) CANUTEC 1-613-996-6666

2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Classification of the chemical

Flam. Liq. 2	Highly flammable liquid and vapour.
Acute Tox. 4	Harmful if swallowed.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2A	Causes serious eye irritation.
Skin Sens. 1	May cause an allergic skin reaction.
Carc. 1A	May cause cancer if inhaled.
Repr. 2	Suspected of damaging fertility or the unborn child if inhaled.
STOT SE 1	Causes damage to organs if inhaled.
STOT RE 2	
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

Label elements

Symbols:

Danger

Code	Description
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350.A	May cause cancer if inhaled.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H370.A	Causes damage to organs if inhaled.
H411	Toxic to aquatic life with long lasting effects.

Code	Description
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241.A	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260.2	Do not breathe mist/vapours/spray.
P264.3	Wash skin thoroughly after handling.
P270	Do no eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312.A	IF SWALLOWED: Call a POISON CENTER if you feel unwell.
P303+P361+P353.1	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P321.A	Specific treatment (see supplementary instructions on this label)
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378.1	In case of fire: Use dry chemical, foam, or water to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501.A.1	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Quantity	Name	Ident. Numb.	Classification
40-60 %	HEXANE	CAS:110-54-3	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Repr. 2, H361; STOT RE 2, H373; Aquatic Chronic 2, H411
15-30 %	Toluene	CAS:108-88-3	Flam. Liq. 2, H225; Repr. 2, H361; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336
7-15 %	ACETONE	CAS:67-64-1	Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336
7-15 %	METHYL ETHYL KETONE	CAS:78-93-3	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370
3-7 %	PHENOLIC RESIN		Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Carc. 1A, H350
0.1-1 %	Rosin	CAS:8050-09-7	Skin Sens. 1, H317

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
HEXANE	OSHA			1800	500				
	ACGIH				50				Skin - potential significant contribution to overall exposure by the cutaneous route;CNS impairment;eye irritation;peripheral neuropathy;
	EU			72	20			Indicative	
Toluene	OSHA				200				
	ACGIH				20				A4 - Not Classifiable as a Human Carcinogen;female reproductive;pregnancy loss;visual impairment;
	OSHA		C				300		
	EU			192	50	384	100	Indicative	Possibility of significant uptake through the skin;
ACETONE	OSHA			2400	1000				
	ACGIH				500		750		A4 - Not Classifiable as a Human Carcinogen;CNS impairment;eye and upper respiratory tract irritation;hematologic effects;
	EU			1210	500			Indicative	
METHYL ETHYL KETONE	OSHA			590	200				
	ACGIH				200		300		CNS and PNS impairment;upper respiratory tract irritation;
	EU			600	200	900	300	Indicative	

Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
110-54-3	HEXANE	0,4	mg/L	Urine	Hexanedione	End of turn; End of working week
108-88-3	Toluene	0,02	mg/L	Blood	Toluene	Before last turn of the working week
		0,03	mg/L	Urine	Toluene	End of turn
		0,3	MGGCREAT	Urine	O-Cresol	End of turn
67-64-1	ACETONE	50	mg/L	Urine	Acetone	End of turn
78-93-3	METHYL ETHYL KETONE	2	mg/L	Urine	MEK	End of turn

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid

Appearance and colour: amber

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: -7 °C (20 °F)

Evaporation rate: Slower than ether

Upper/lower flammability or explosive limits: N.A.

Vapour density: Heavier than Air
Vapour pressure: N.A.
Relative density: N.A.
Solubility in water: N.A.
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Viscosity: N.A.
Explosive properties: N.A.
Oxidizing properties: N.A.
Solid/gas flammability: N.A.

Other information

Substance Groups relevant properties N.A.
Miscibility: N.A.
Fat Solubility: N.A.
Conductivity: N.A.

10. STABILITY AND REACTIVITY

Reactivity

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

HEXANE	a) acute toxicity	LD50 Skin Rabbit = 3000mg/kg
		LC50 Inhalation Rat = 48000ppm 4h
Toluene	a) acute toxicity	LD50 Skin Rabbit = 8390mg/kg
		LC50 Inhalation Rat = 125mg/l 4h
		LD50 Oral Rat = 636mg/kg
		LD50 Skin Rat = 12124,00000ml/kg
		LC50 Inhalation Rat > 26700,00000ppm 1h
ACETONE	a) acute toxicity	LC50 Inhalation Rat = 50100mg/m3 8h
METHYL ETHYL KETONE	a) acute toxicity	LC50 Inhalation Rat = 23500mg/m3 8h
Rosin	a) acute toxicity	LD50 Skin Rabbit > 2500mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity
b) skin corrosion/irritation
c) serious eye damage/irritation
d) respiratory or skin sensitisation

e) germ cell mutagenicity

f) carcinogenicity

g) reproductive toxicity

h) STOT-single exposure

i) STOT-repeated exposure

j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Toluene Group 3

Substance(s) listed as OSHA Carcinogen(s):

None

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

None

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.
Eco-Toxicological Information:

List of components with eco-toxicological properties

Quantity	Component	Ident. Numb.	Ecotox Infos
40-60 %	HEXANE	CAS: 110-54-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas21mg/L 96h EPA
15-30 %	Toluene	CAS: 108-88-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas1522mg/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss589mg/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus11mg/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Oryzias latipes= 54mg/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Poecilia reticulata= 282mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna546mg/L 48h EPA
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata> 433mg/L 96h IUCLID
			EC50 a) Aquatic acute toxicity Algae Pseudokirchneriella subcapitata= 125mg/L 72h EPA
7-15 %	ACETONE	CAS: 67-64-1	LC50 a) Aquatic acute toxicity Fish Oncorhynchus mykiss474mL/L 96h EPA
			LC50 a) Aquatic acute toxicity Fish Pimephales promelas6210mg/L 96h IUCLID
			LC50 a) Aquatic acute toxicity Fish Lepomis macrochirus= 8300mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna10294mg/L 48h EPA
			LC50 G 5 Phasianus colchicus> 40000ppm 5d IUCLID
			LC50 G 5 Coturnix coturnix japonica> 40000ppm 5d IUCLID
			LC50 d) Terrestrial toxicity Worm Eisenia foetida200µg/cm2 48h IUCLID
7-15 %	METHYL ETHYL KETONE	CAS: 78-93-3	LC50 a) Aquatic acute toxicity Fish Pimephales promelas3130mg/L 96h EPA
			EC50 a) Aquatic acute toxicity Daphnia Daphnia magna> 520mg/L 48h IUCLID
0.1-1 %	Rosin	CAS: 8050-09-7	EC50 a) Aquatic acute toxicity Daphnia Daphnia magna38mg/L 48h IUCLID
			EC50 a) Aquatic acute toxicity Algae Desmodesmus subspicatus= 400mg/L 72h IUCLID

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

14. TRANSPORT INFORMATION

UN number

ADR-UN number: 1133
DOT-UN Number: UN1133
IATA-Un number: 1133
IMDG-Un number: 1133

UN proper shipping name

ADR-Shipping Name: ADHESIVES containing flammable liquid (vapour pressure at 50 °C more than 110 kPa)
DOT Proper Shipping Name: Adhesives, containing a flammable liquid
IATA-Technical name: ADHESIVES containing flammable liquid
IMDG-Technical name: ADHESIVES containing flammable liquid

Transport hazard class(es)

ADR-Class: 3
DOT Hazard Class: 3
IATA-Class: 3
IMDG-Class: 3

Packing group

ADR-Packing Group: II
DOT-Packing group: II
IATA-Packing group: II
IMDG-Packing group: II

Environmental hazards

Marine pollutant: Yes
Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): 149, B52, IB2, T4, TP1, TP8
DOT Label(s): 3
DOT Symbol: N/A
DOT Cargo Aircraft: N/A
DOT Passenger Aircraft: N/A
DOT Bulk: N/A
DOT Non-Bulk: N/A

Road and Rail (ADR-RID):

ADR exempt: No
ADR-Label: 3
ADR - Hazard identification number: 33
ADR Tunnel Restriction Code: 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353
IATA-Cargo Aircraft: 364
IATA-Label: 3
IATA-Subrisk: -
IATA-Erg: 3L
IATA-Special Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category B
IMDG-Stowage Note: -
IMDG-Subrisk: -
IMDG-Special Provisions: -
IMDG-Page: N/A
IMDG-Label: N/A
IMDG-EMS: F-E, S-D
IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

List of substances included in the TSCA inventory:	HEXANE; Toluene; ACETONE; METHYL ETHYL KETONE; Rosin
List of substances not included in the TSCA inventory:	PHENOLIC RESIN

TSCA listed substances:

HEXANE	is listed in TSCA	Section 8b
Toluene	is listed in TSCA	Section 8b
ACETONE	is listed in TSCA	Section 8b
METHYL ETHYL KETONE	is listed in TSCA	Section 8b
Rosin	is listed in TSCA	Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

no substances listed

Section 304 - Hazardous substances:

HEXANE

Toluene

ACETONE

METHYL ETHYL KETONE

Section 313 - Toxic chemical list:

HEXANE

Toluene

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

HEXANE	Reportable quantity:	5000	pounds
Toluene	Reportable quantity:	1000	pounds
ACETONE	Reportable quantity:	5000	pounds
METHYL ETHYL KETONE	Reportable quantity:	5000	pounds
	Reportable quantity for mixture:	6358.087	pounds

CAA - Clean Air Act

CAA listed substances:

HEXANE	is listed in CAA	Section 112(b) - HAP, Section 112(b) - HON
Toluene	is listed in CAA	Section 112(b) - HAP, Section 112(b) - HON
ACETONE	is listed in CAA	Section 112(b) - HON
METHYL ETHYL KETONE	is listed in CAA	Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

Toluene	is listed in CWA	Section 307, Section 311

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Toluene	Listed as reproductive toxicant

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

HEXANE

Toluene

ACETONE

METHYL ETHYL KETONE

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

HEXANE

Toluene

ACETONE

METHYL ETHYL KETONE

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

HEXANE

Toluene

ACETONE

METHYL ETHYL KETONE

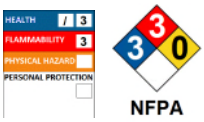
16. OTHER INFORMATION

Code	Description
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350.A	May cause cancer if inhaled.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361.A	Suspected of damaging fertility or the unborn child if inhaled.
H370	Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H370.A	Causes damage to organs if inhaled.
H373	May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet dated: 4/27/2015 - version 1

Product code: 2851

Additional classification information



HMIS Health: 3 = SERIOUS

HMIS Flammability: 3 = Flammable liquid

HMIS Reactivity: N.A.

HMIS P.P.E.: N.A.

NFPA Health: 3 = SERIOUS

NFPA Flammability: 3 = Flammable liquid

NFPA Reactivity: 0 = MINIMAL

NFPA Special Risk: NONE

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
CLP: Classification, Labeling, Packaging.
EINECS: European Inventory of Existing Commercial Chemical Substances.
INCI: International Nomenclature of Cosmetic Ingredients.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
GefStoffVO: Ordinance on Hazardous Substances, Germany.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.
KSt: Explosion coefficient.